

SMD MOLDED POWER INDUCTORS

LPM 0420,0630 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/uH, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Frequency up to 5MHz.

OPTIONS:

- Tape & Reel is Standard (Qty:1000pcs.)
- Bulk packaging Available for Smaller Quantities
- Tolerance:M=20% ,N=30% is Standard,Tighter Tolerances Available

COMMON APPLICATIONS:

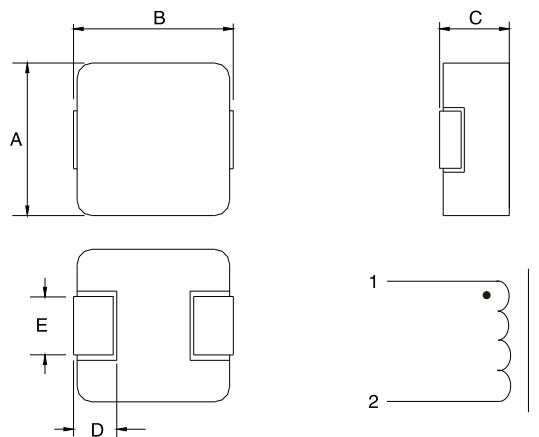
- Excellent for power line DC-DC conversion
- Applications used in power switching
- Personal computers and other handheld electronic equipment.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)	Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM0420-R047M	0.047	15	15	2.5	3	LPM0630-R82M	0.82	13	24	4.9	7.8
LPM0420-R10M	0.1	12	12	4.5	5.5	LPM0630-1R0M	1.0	12	22	7.4	9.4
LPM0420-R22M	0.22	9.5	9.5	8	9.5	LPM0630-1R5M	1.5	10	18	8.6	14
LPM0420-R47M	0.47	6	6	17.5	19	LPM0630-2R2M	2.2	8	15	12.3	18
LPM0420-1R0M	1.0	4.2	4.5	41.5	43	LPM0630-3R3M	3.3	6	11.5	17.3	25
LPM0420-1R2M	1.2	3.75	3.75	54.5	55.6	LPM0630-4R7M	4.7	5.5	10	24.2	32
LPM0420-1R5M	1.5	3.25	3.25	67	68	LPM0630-5R6M	5.6	5.0	8.5	30.6	40
LPM0420-2R2M	2.2	2.75	3	77.5	79	LPM0630-6R8M	6.8	4.5	8.0	37	44
LPM0630-R20M	0.2	24	41	2	3.0	LPM0630-8R2M	8.2	4.0	6.5	50	60
LPM0630-R33M	0.33	20	30	2.1	3.4	LPM0630-100M	10	3.5	5.5	56	72
LPM0630-R47M	0.47	17.5	26	4.0	5.3	LPM0630-150M	15	3.0	5	84	105
LPM0630-R68M	0.68	16.0	25	4.6	6.4	LPM0630-220M	22	2.5	4.5	112	165

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

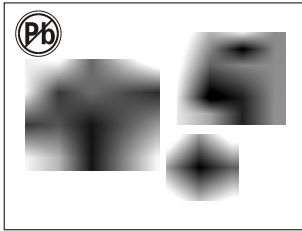
- Test Frequency : 100KHz / 0.25Vdc
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^{\circ}\text{C}$ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: $-40^{\circ}\text{C} - +105^{\circ}\text{C}$.



Dimensions(mm)

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)		
LPM 0420	4.06 ± 0.254	4.45 ± 0.254	2.0 max.	0.76 ± 0.3	2.3 ± 0.2		
LPM 0630	6.6 ± 0.2	7.2 ± 0.2	3.0 max.	1.5 ± 0.5	3.0 ± 0.2		

Note:All specifications subject to change without notice.



SMD MOLDED POWER INDUCTORS

LPM 1040,1045 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.
- Frequency up to 5MHz.

OPTIONS:

- Tape & Reel is Standard (Qty:1000pcs.)
- Bulk packaging Available for Smaller Quantities
- Tolerance:M=20% ,N=30% is Standard,Tighter Tolerances Available

COMMON APPLICATIONS:

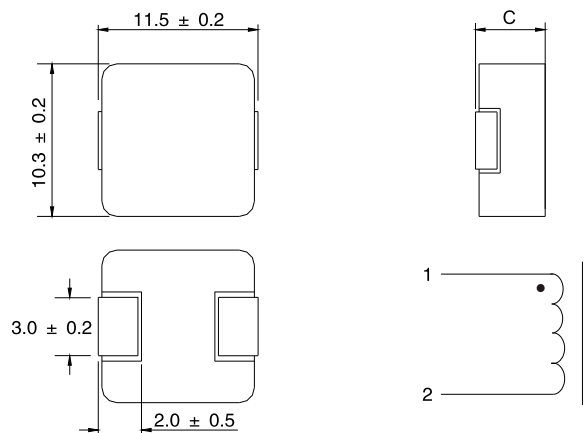
- Excellent for power line DC-DC conversion
- Applications used in power switching
- Personal computers and other handheld electronic equipment.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)	Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1040-R20M	0.2	36	66	1.8	3.5	LPM1040-5R6M	5.6	8.5	15	18.9	25
LPM1040-R33M	0.33	31	60	2.0	3.8	LPM1040-6R8M	6.8	8.0	14	23.5	30
LPM1040-R47M	0.47	28.5	54	2.1	4.0	LPM1040-8R2M	8.2	7.0	12.5	28.3	35
LPM1040-R56M	0.56	27.5	49	2.2	4.5	LPM1045-100M	10	6.8	11.5	30.2	38
LPM1040-R68M	0.68	24	42	2.8	5.0	LPM1045-150M	15	5.0	9	48	55
LPM1040-R82M	0.82	22	39	3.0	7.0	LPM1045-220M	22	4.5	8	50	58
LPM1040-1R0M	1.0	17.5	32	3.5	7.5	LPM1045-330M	33	3.5	6.5	75	90
LPM1040-1R2M	1.2	19.5	29	4.3	7.9	LPM1045-470M	47	3.0	5	110	130
LPM1040-1R5M	1.5	15	27.5	5.2	8.0						
LPM1040-2R2M	2.2	12	21.5	6.5	10						
LPM1040-3R3M	3.3	10	18.6	10.1	14						
LPM1040-4R7M	4.7	9.5	16.5	15.5	23.6						

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

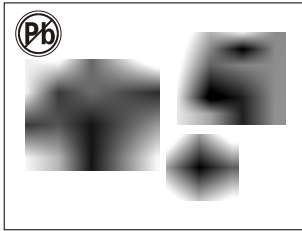
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- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^{\circ}\text{C}$ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
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Dimensions(mm)

Series	C
LPM1040	4.5Max
LPM1045	5.5Max

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SMD MOLDED POWER INDUCTORS

LPM 1240,1250,1260 1265,1270 SERIES

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COMMON APPLICATIONS:

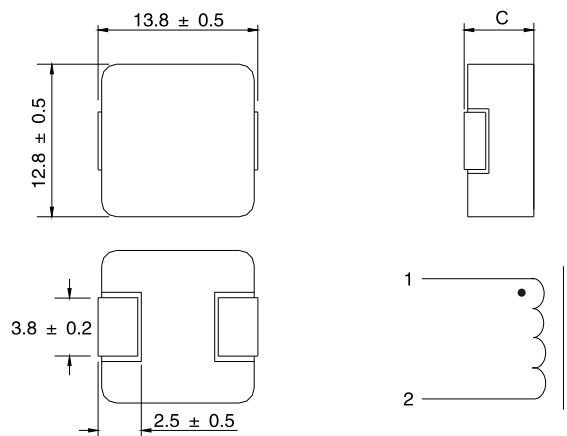
- Excellent for power line DC-DC conversion
- Applications used in power switching
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Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)	Part Number	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1240-R22M	0.22	45	85.5	1.5	3.0	LPM1260-5R6M	5.6	11.5	20	10.5	15
LPM1240-R33M	0.33	42	80.5	1.8	3.5	LPM1260-6R8M	6.8	11.0	18.5	13	17
LPM1240-R47M	0.47	38	65	2.0	4.0	LPM1260-8R2M	8.2	10	17	18	23
LPM1240-R56M	0.56	36	55	2.3	5.0	LPM1260-100M	10	9.5	16	25	30
LPM1240-R68M	0.68	34	54	2.7	5.5	LPM1265-150M	15	9.0	14.5	36	45
LPM1250-R82M	0.82	31	53	3.0	6.5	LPM1265-220M	22	8.0	13	39	50
LPM1250-1R0M	1.0	29	50	3.5	7.0	LPM1265-330M	33	7.0	11	42	55
LPM1250-1R2M	1.2	26	49	3.9	7.5	LPM1265-470M	47	6.0	10	61	85
LPM1250-1R5M	1.5	23	48	4.3	8.0	LPM1265-680M	68	4.5	8.5	92	110
LPM1250-2R2M	2.2	20	32	5.0	9.0	LPM1275-820M	82	3.5	6.5	104	125
LPM1250-3R3M	3.3	15	27.5	6.5	11	LPM1270-101M	100	3.0	5.5	111.5	140
LPM1260-4R7M	4.7	12	22.5	8.5	13						

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

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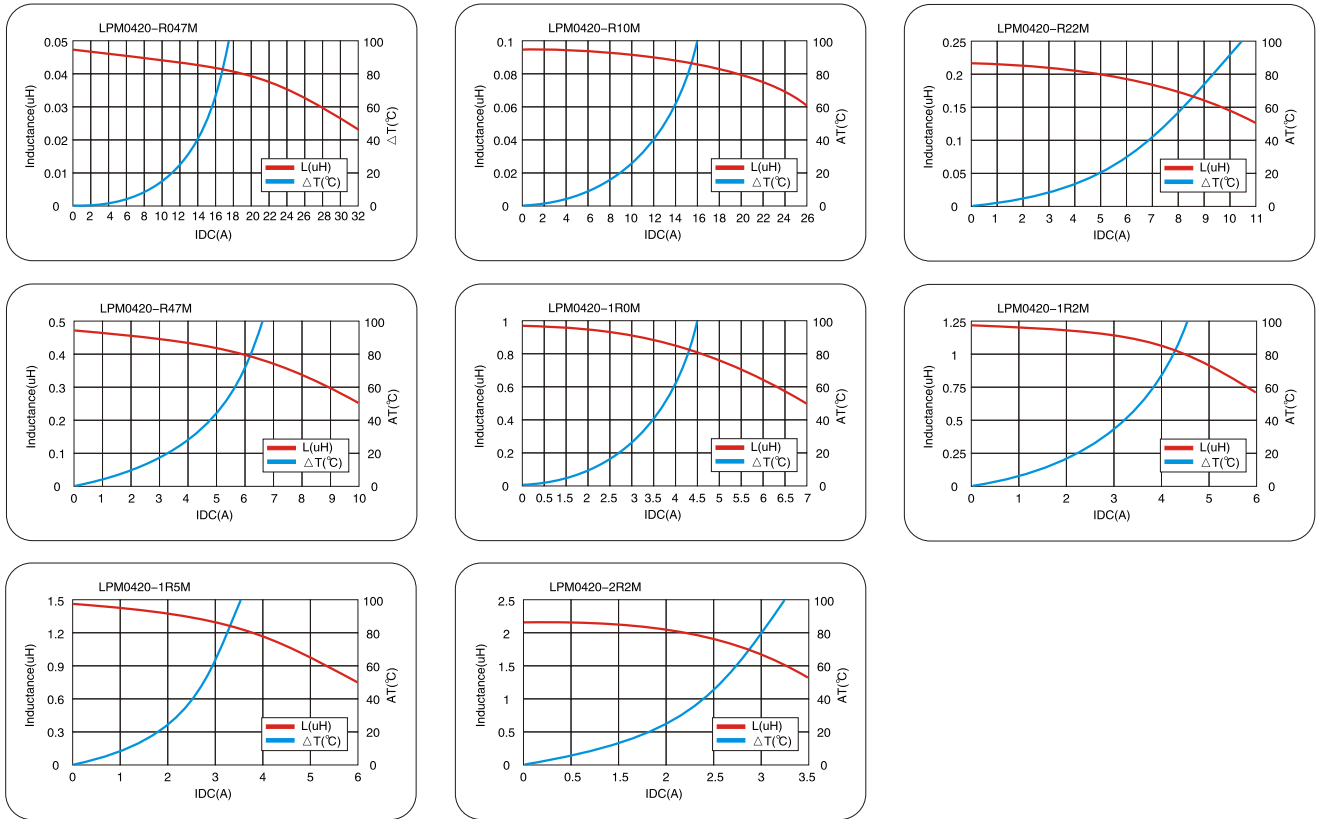
Dimensions(mm)

Series	LPM1240	LPM1250	LPM1260	LPM1265	LPM1270
C	5.0Max	6.0Max	7.0Max	7.5Max	8.0Max

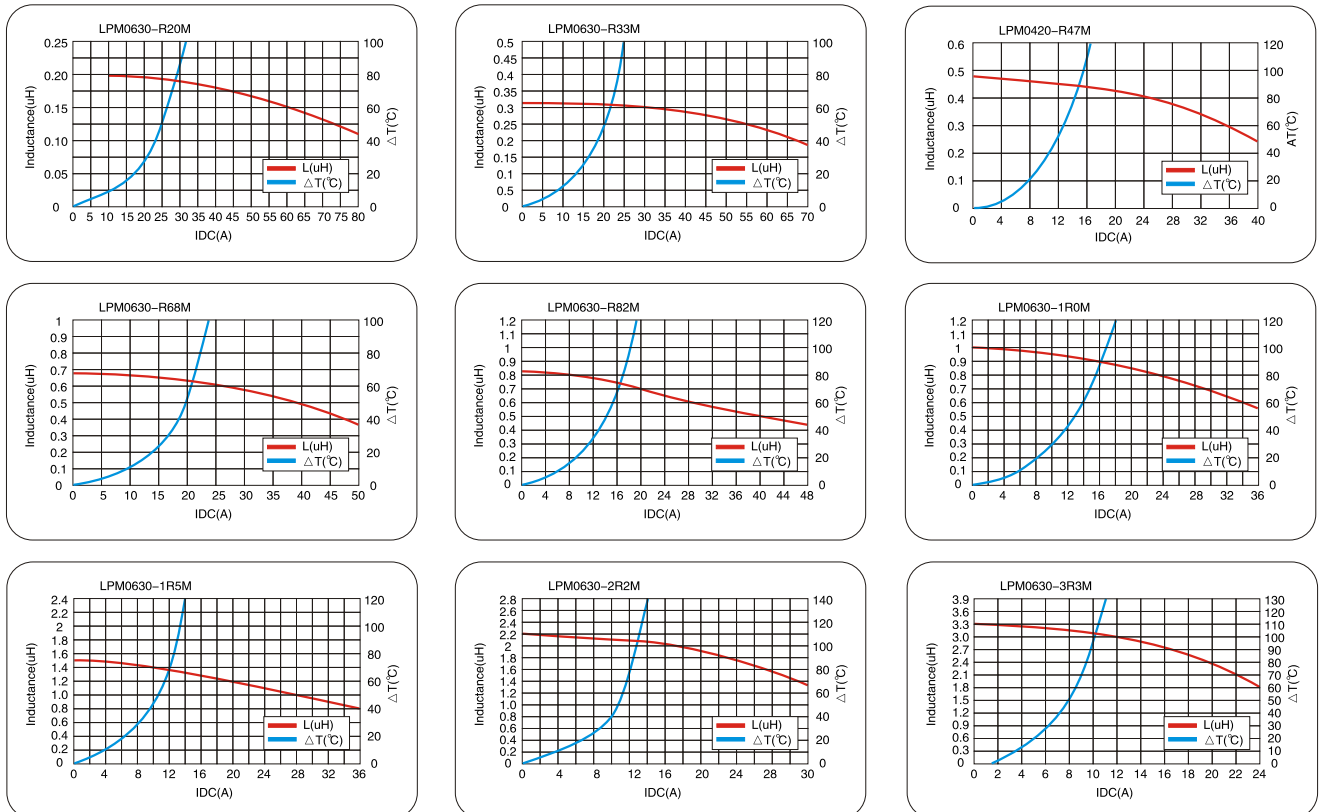
Note:All specifications subject to change without notice.

PERFORMANCE CURVE

LPM0420 Series

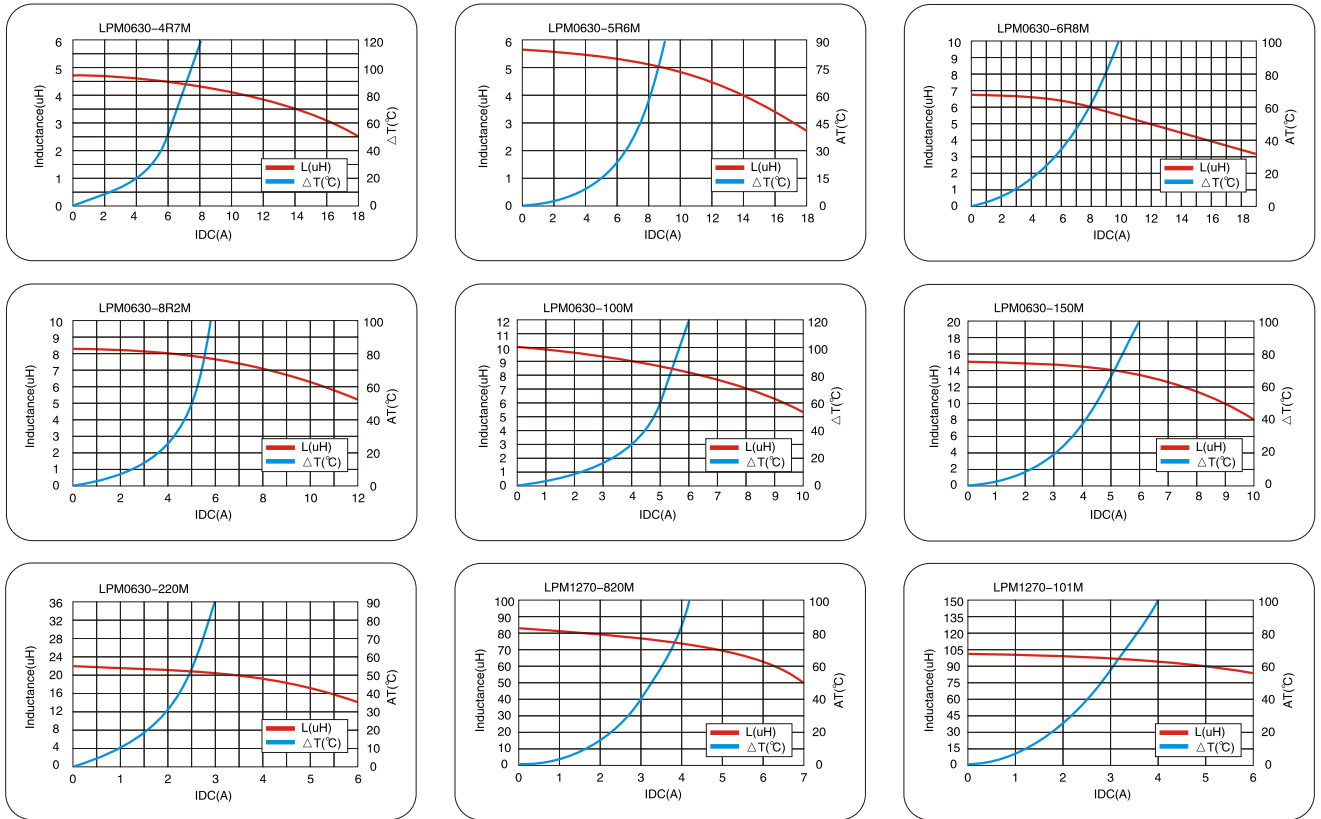


LPM0630 Series

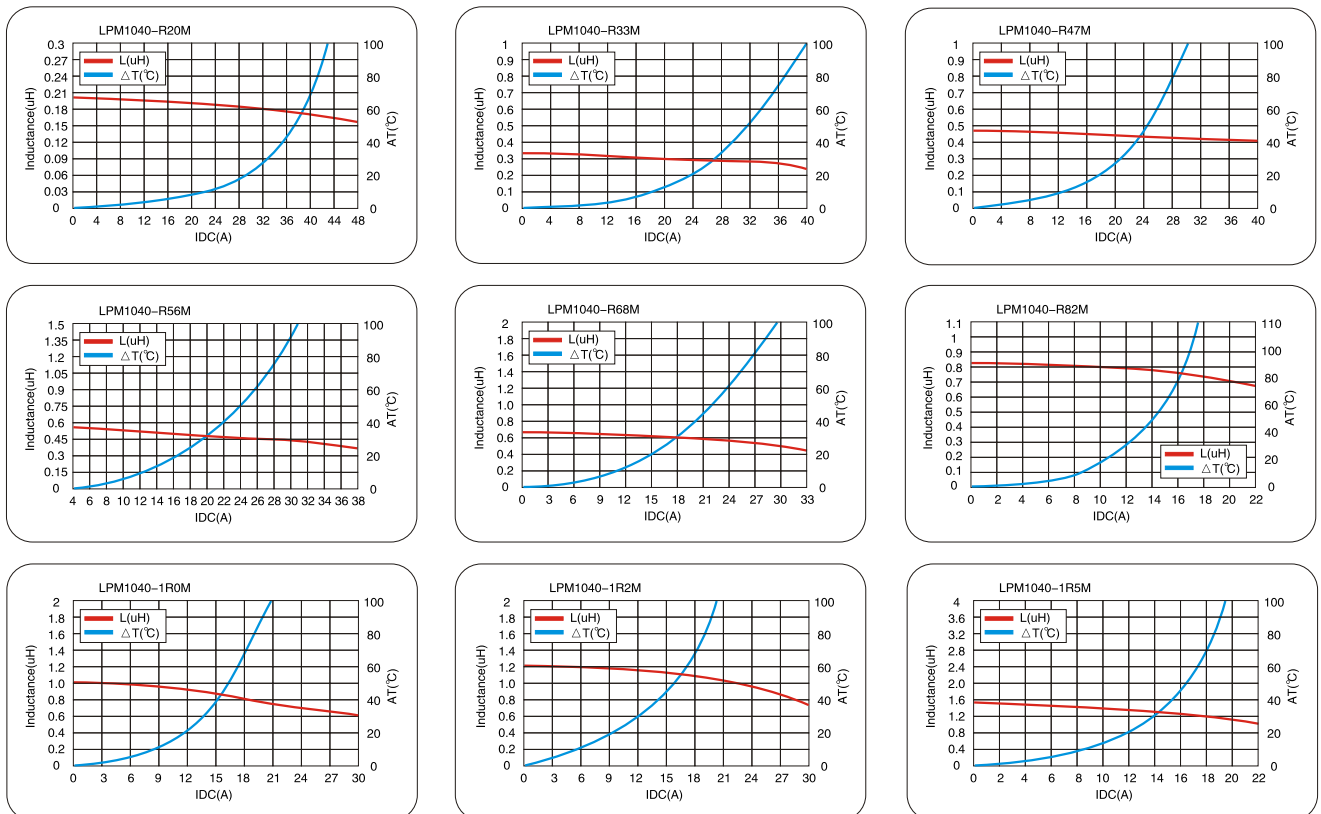


PERFORMANCE CURVE

LPM0630,1270 Series

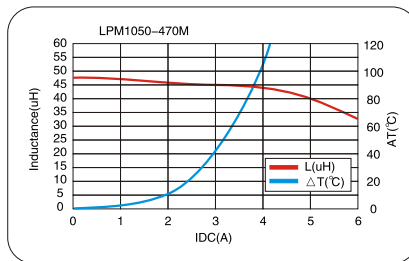
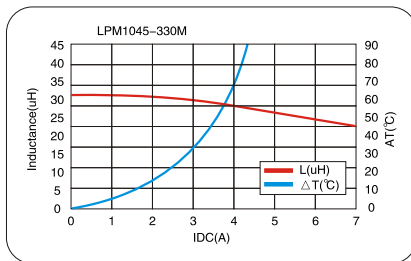
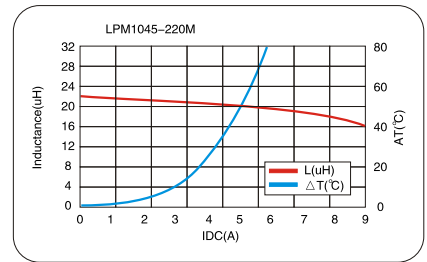
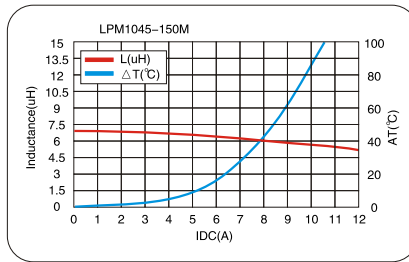
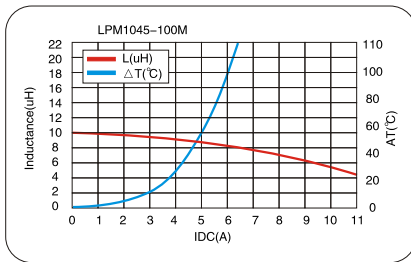
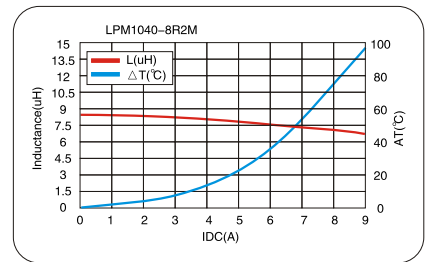
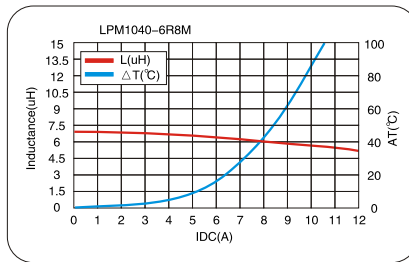
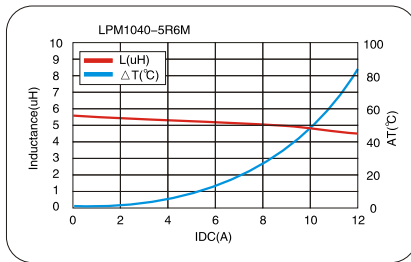
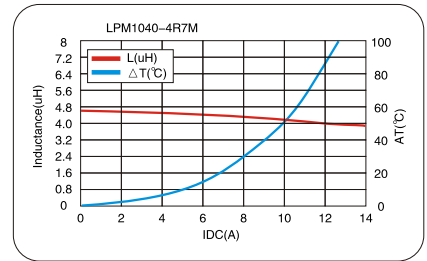
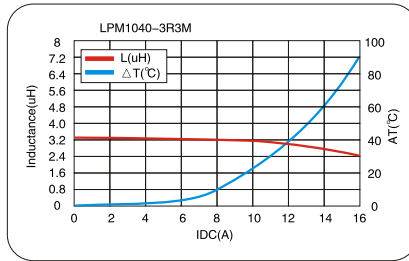
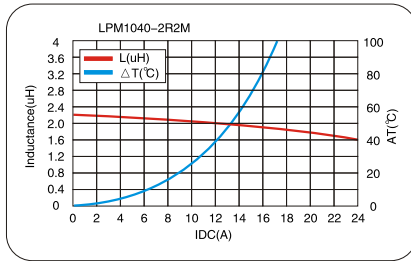


LPM1040 Series

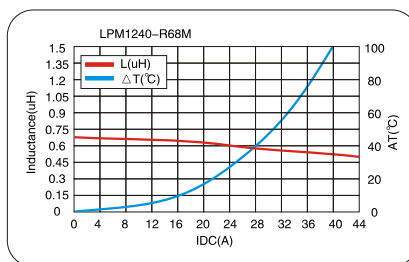
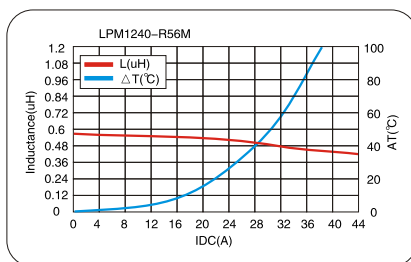
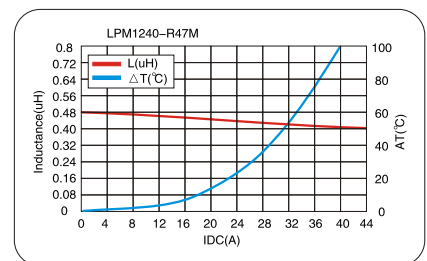
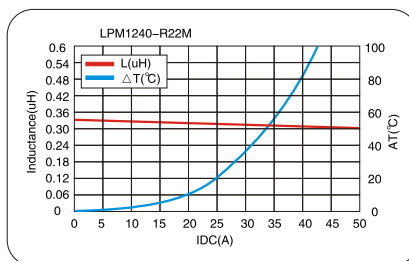
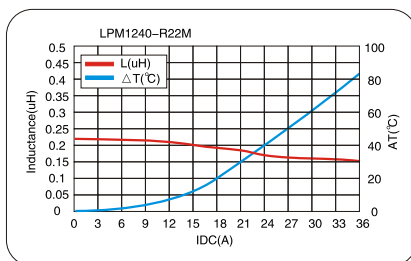


PERFORMANCE CURVE

LPM1040,1045 Series

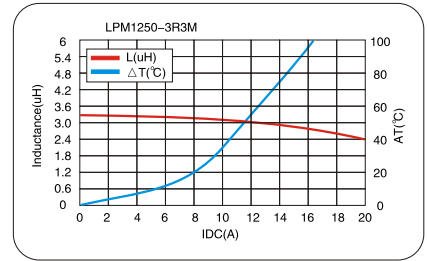
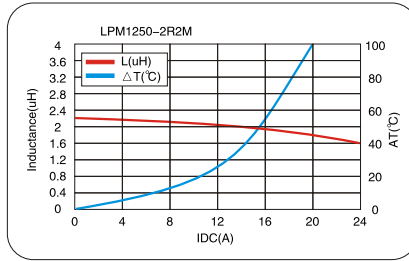
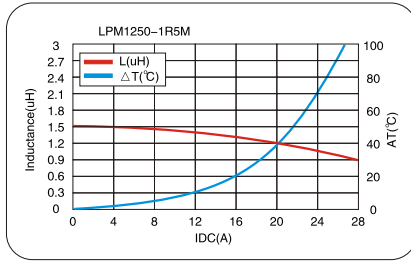
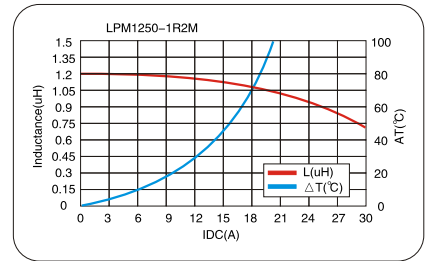
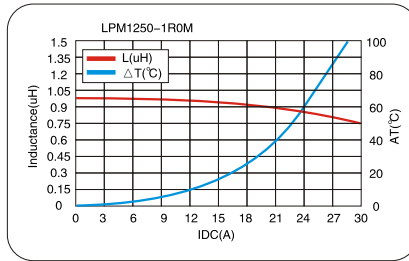
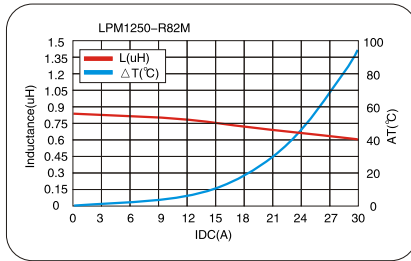


LPM1240 Series

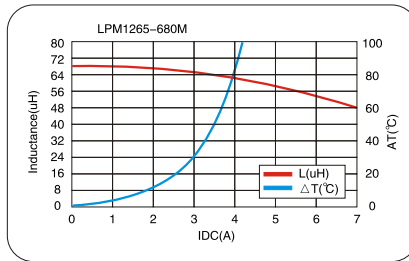
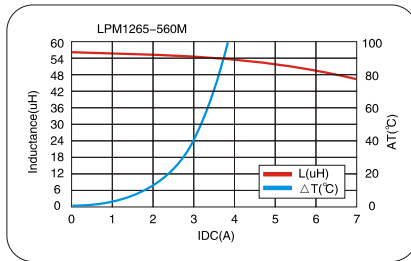
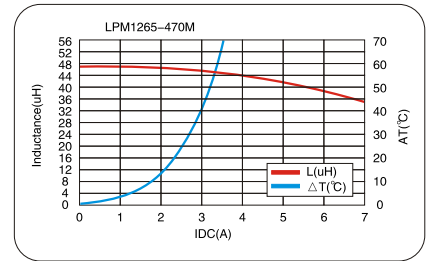
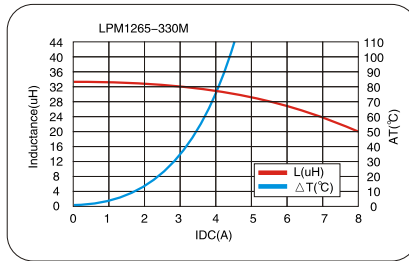
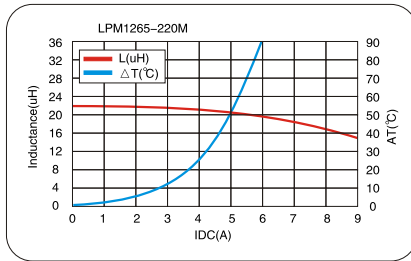
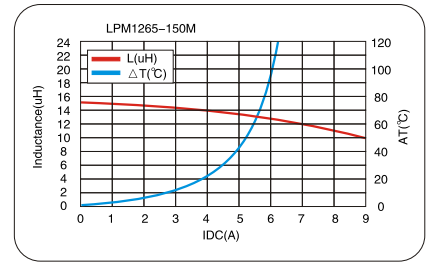
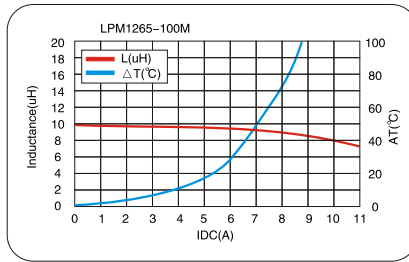
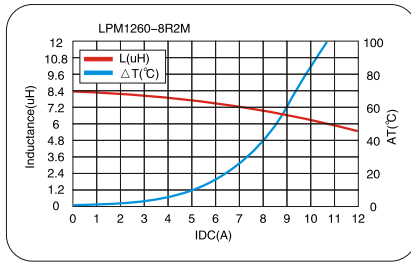
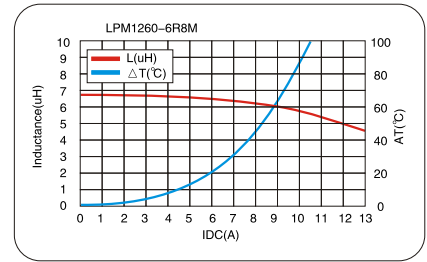
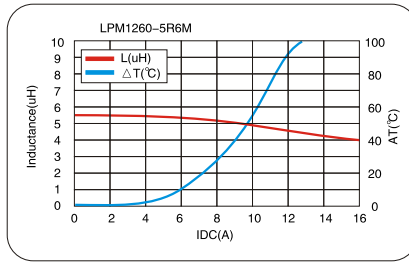
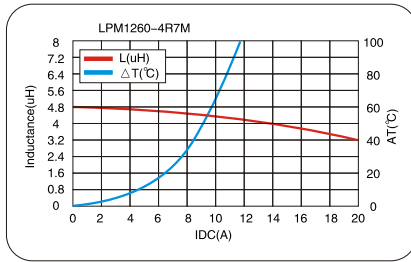


PERFORMANCE CURVE

LPM1250 Series

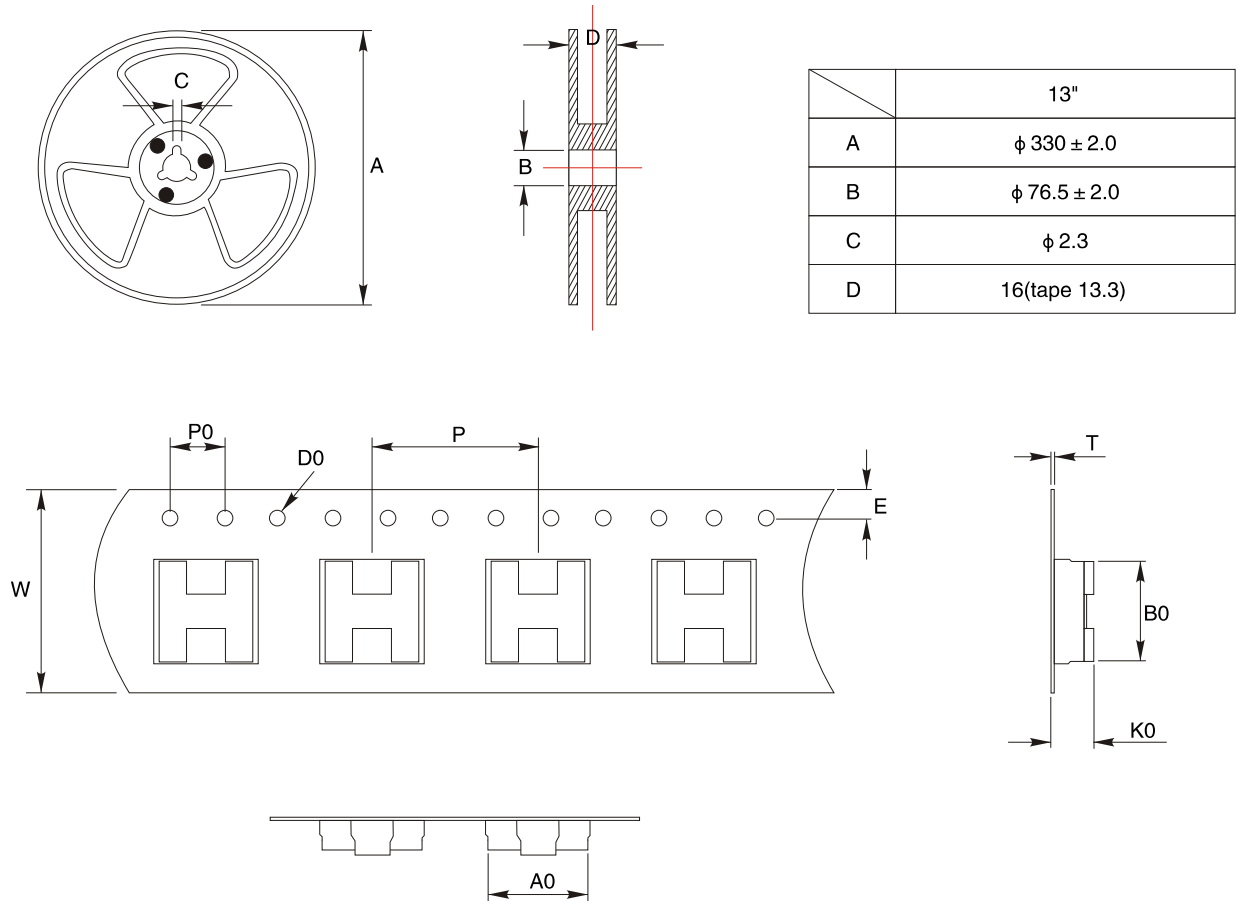


LPM1260,1265 Series

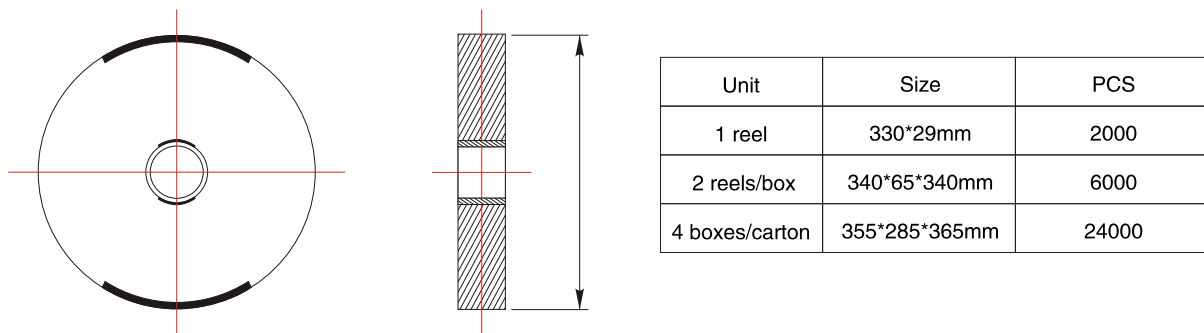


PRODUCT PACKAGING

LPM0630 Series

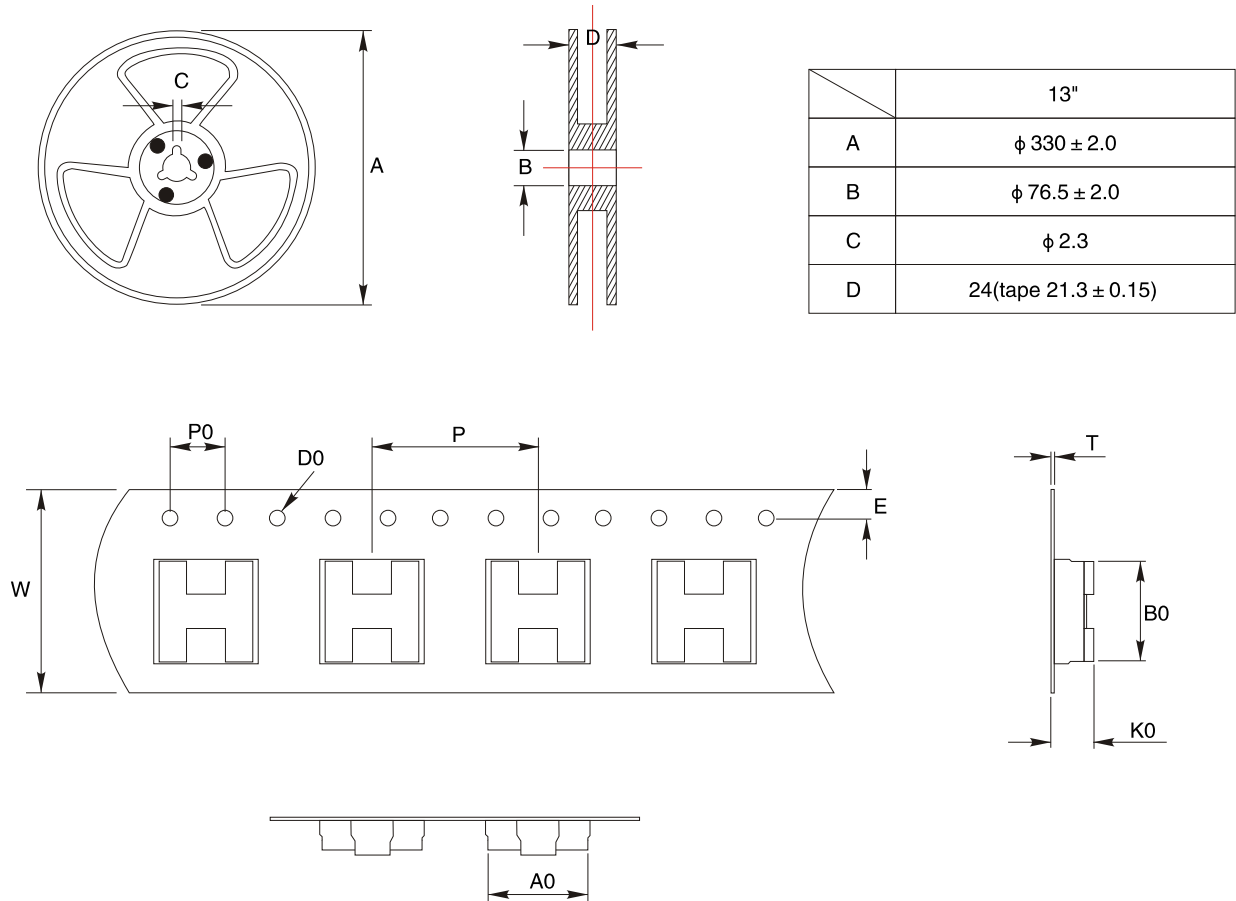


Size	W	A0	B0	D0	E	K0	P0	P	T
0630	16.0 ± 0.3	6.8 ± 0.1	6.8 ± 0.1	1.5 ± 0.1	1.75 ± 0.1	2.8 ± 0.1	4.0 ± 0.1	12.0 ± 0.1	0.4 ± 0.05

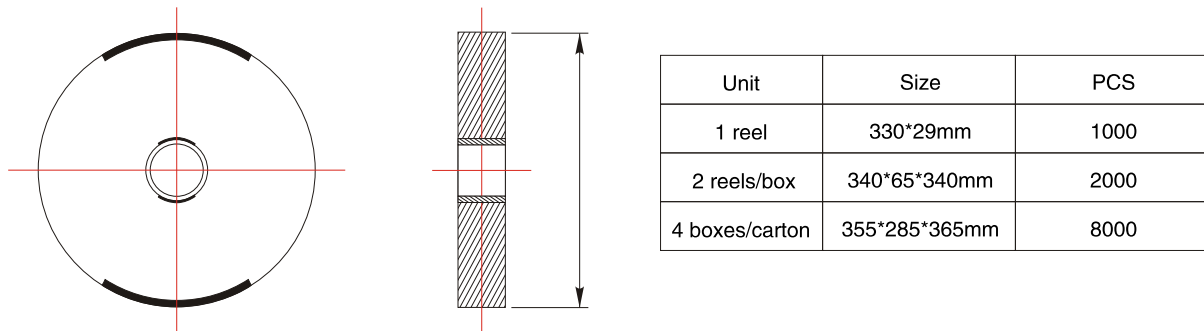


PRODUCT PACKAGING

LPM1040 Series

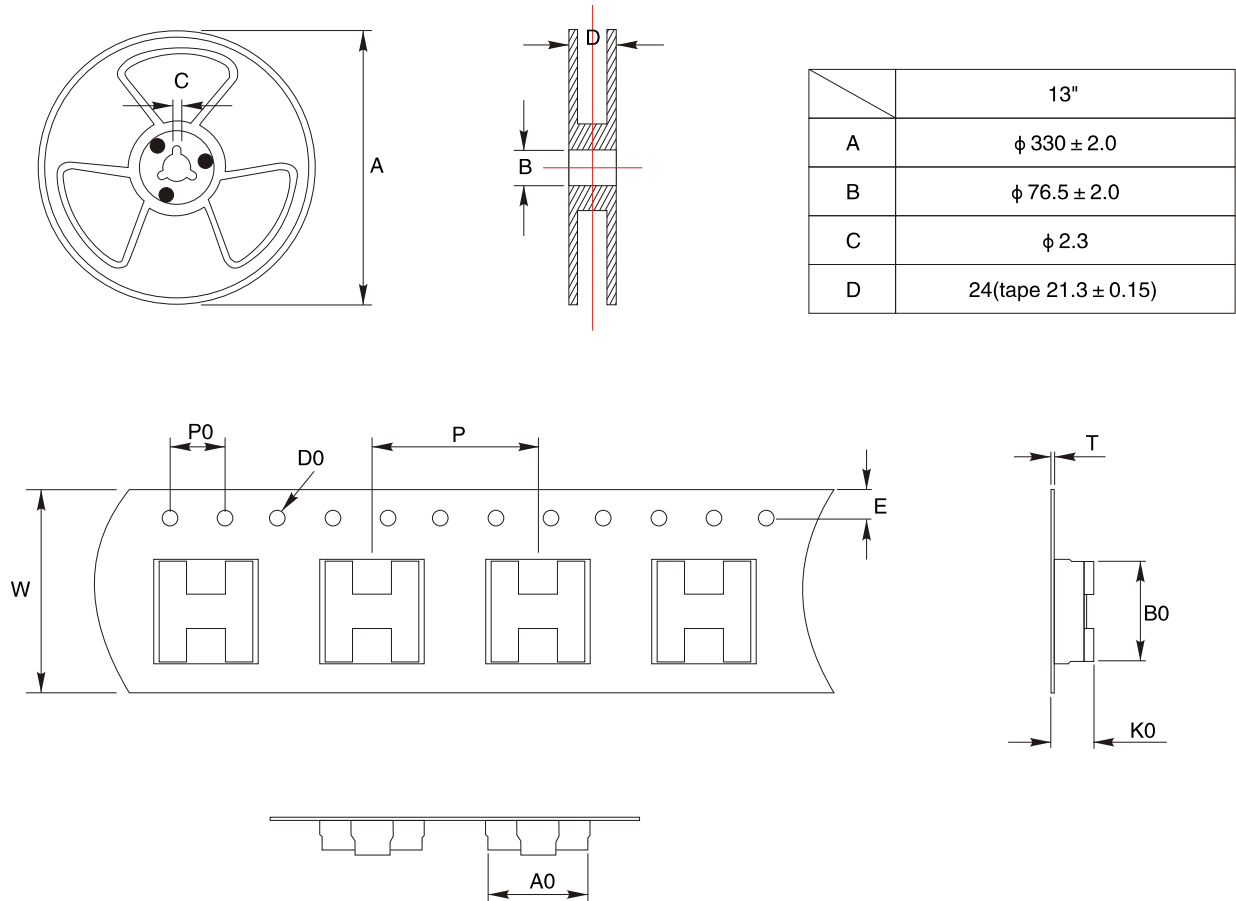


Size	W	A0	B0	D0	E	K0	P0	P	T
1040	24.0 ± 0.3	10.6 ± 0.1	11.6 ± 0.1	1.5 ± 0.1	1.75 ± 0.1	4.2 ± 0.1	4.0 ± 0.1	16.0 ± 0.1	0.4 ± 0.05

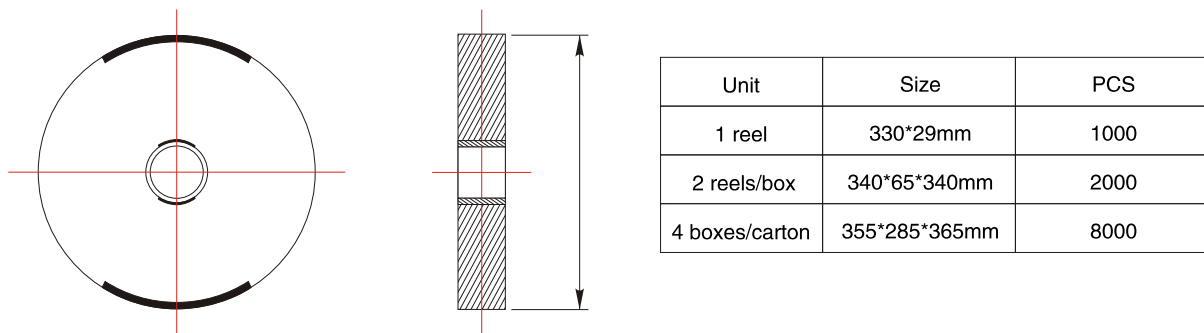


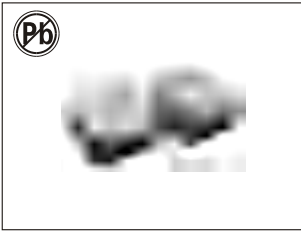
PRODUCT PACKAGING

LPM1260 Series



Size	W	A0	B0	D0	E	K0	P0	P	T
1260	24.0 ± 0.3	13.1 ± 0.1	14.1 ± 0.1	1.5 ± 0.1	1.75 ± 0.1	6.0 ± 0.1	20.0 ± 0.1	16.0 ± 0.1	0.4 ± 0.05





SMD MOLDED POWER INDUCTORS

LPM 1340 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/uH, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

COMMON APPLICATIONS:

- Excellent for power line DC-DC conversion
- Applications used in power switching
- Personal computers and other handheld electronic equipment.

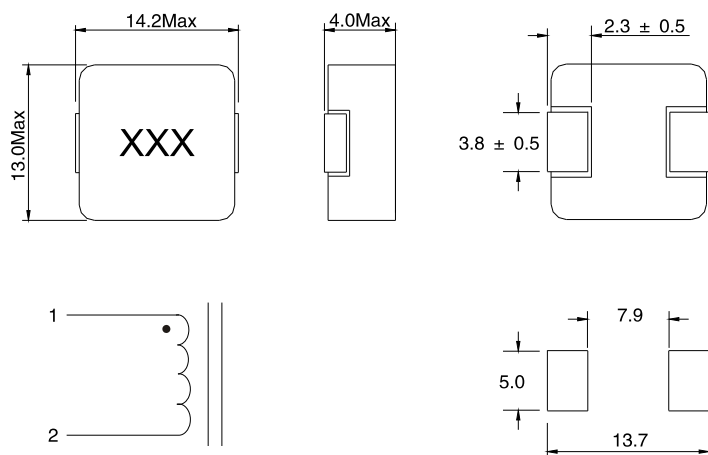
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM1340-R10M	R10	0.1	33.0	84.0	0.96
LPM1340-R15M	R15	0.15	31.0	75.0	1.2
LPM1340-R22M	R22	0.22	28.5	65.0	1.3
LPM1340-R33M	R33	0.33	26.5	62.0	1.5
LPM1340-R47M	R47	0.47	23.0	55.0	2.0
LPM1340-R60M	R60	0.60	22.0	40.0	3.0
LPM1340-R68M	R68	0.68	22.0	40.0	2.5
LPM1340-R82M	R82	0.82	20.0	38.0	3.0
LPM1340-1R0M	1R0	1.0	19.0	38.0	3.5
LPM1340-1R5M	1R5	1.5	16.0	30.0	5.5
LPM1340-1R8M	1R8	1.8	16.0	26.0	8.3
LPM1340-2R2M	2R2	2.2	15.0	22.0	9.5
LPM1340-3R3M	3R3	3.3	14.0	20.0	12.0
LPM1340-4R7M	4R7	4.7	9.0	15.0	15.0
LPM1340-5R6M	5R6	5.6	8.0	14.0	19.0
LPM1340-6R8M	6R8	6.8	7.0	12.0	24.0
LPM1340-8R2M	8R2	8.2	7.0	12.0	28.0
LPM1340-100M	100	10	6.0	10.0	35.0

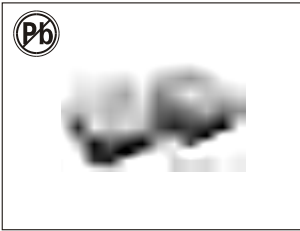
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc@25°C.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^{\circ}\text{C}$ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 25%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: $-55^{\circ}\text{C} - +125^{\circ}\text{C}$.

Dimensions(mm)



Note: All specifications subject to change without notice.



SMD MOLDED POWER INDUCTORS

LPM 1350 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

COMMON APPLICATIONS:

- Excellent for power line DC-DC conversion
- Applications used in power switching
- Personal computers and other handheld electronic equipment.

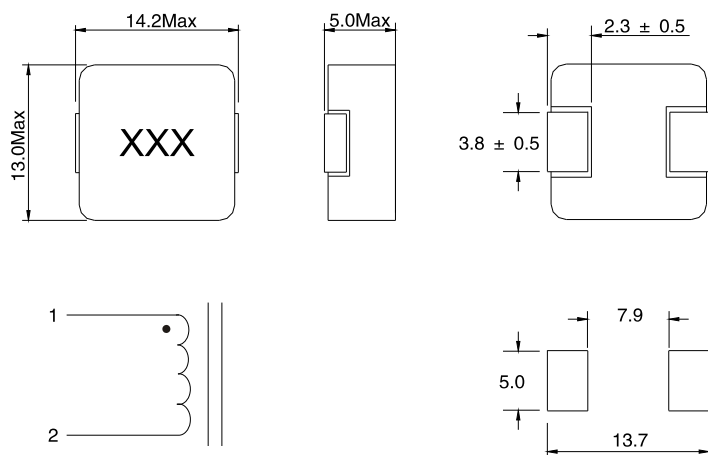
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM1350-R10M	R10	0.1	45.0	98	0.6
LPM1350-R22M	R22	0.22	41.0	90	0.8
LPM1350-R33M	R33	0.33	32.0	60	1.1
LPM1350-R47M	R47	0.47	25.0	48	1.3
LPM1350-R56M	R56	0.56	23.0	46	1.5
LPM1350-R68M	R68	0.68	20.0	40	1.7
LPM1350-R82M	R82	0.82	19.0	39	2.5
LPM1350-1R0M	1R0	1.0	18.0	35	3.5
LPM1350-1R5M	1R5	1.5	18.0	33	4.1
LPM1350-1R8M	1R8	1.8	17.0	30	4.9
LPM1350-2R2M	2R2	2.2	16.0	25	5.5
LPM1350-3R3M	3R3	3.3	15.0	23	13.0
LPM1350-4R7M	4R7	4.7	12.0	21	15.0
LPM1350-5R6M	5R6	5.6	12.0	20	17.0
LPM1350-6R8M	6R8	6.8	11.0	18	19.0
LPM1350-8R2M	8R2	8.2	10.0	17	22.5
LPM1350-100M	100	10	6.0	13	25.5
LPM1350-470M	470	47	2.5	3.5	90.0

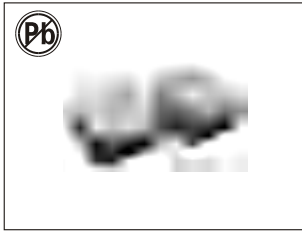
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc@25°C.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^{\circ}\text{C}$ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 25%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: $-55^{\circ}\text{C} - +125^{\circ}\text{C}$.

Dimensions(mm)



Note: All specifications subject to change without notice.



SMD MOLDED POWER INDUCTORS

LPM 1360 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/H, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

COMMON APPLICATIONS:

- Excellent for power line DC-DC conversion
- Applications used in power switching
- Personal computers and other handheld electronic equipment.

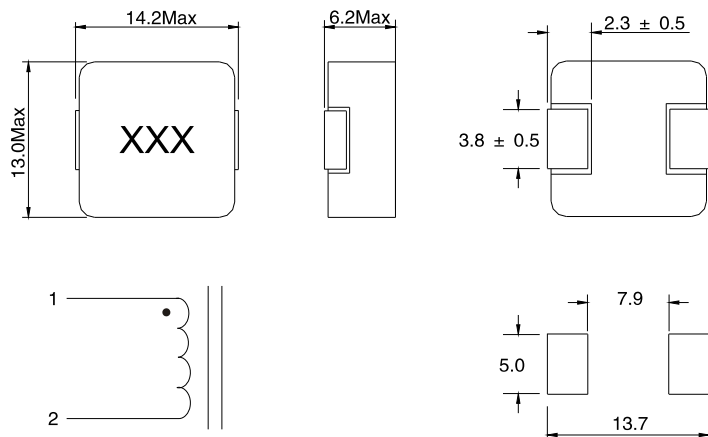
ELECTRICAL CHARACTERISTICS:

Part Number	Codes	Inductance L0(μH) ± 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM1360-R10M	R10	0.1	60	108	2.0
LPM1360-R15M	R15	0.15	55	105	2.1
LPM1360-R22M	R22	0.22	53	100	2.2
LPM1360-R30M	R30	0.30	48	60	2.3
LPM1360-R33M	R33	0.33	46	55	2.3
LPM1360-R40M	R40	0.40	44	52	2.4
LPM1360-R47M	R47	0.47	41	50	2.5
LPM1360-R56M	R56	0.56	37	48	2.6
LPM1360-R68M	R68	0.68	35	45	2.8
LPM1360-R82M	R82	0.82	25	42	3.0
LPM1360-1R0M	1R0	1.0	21	40	3.5
LPM1360-1R2M	1R2	1.2	21	38	3.8
LPM1360-1R5M	1R5	1.5	21	35	4.0
LPM1360-1R8M	1R8	1.8	20	33	4.2
LPM1360-2R2M	2R2	2.2	20	32	4.5
LPM1360-3R3M	3R3	3.3	15	30	8.2
LPM1360-4R7M	4R7	4.7	12	25	13.5
LPM1360-5R6M	5R6	5.6	12	22	21.0
LPM1360-6R8M	6R8	6.8	11	20	23.0
LPM1360-8R2M	8R2	8.2	10.5	16	15.5
LPM1360-100M	100	10	10	12.5	30.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc@25°C.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately, ΔT=40°C without core loss.
- Saturation Current (I_{sat}) will cause L0 to drop approximately 25%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: -55°C ~ +125°C.

Dimensions(mm)



Note: All specifications subject to change without notice.

SMD MOLDED POWER INDUCTORS

LPM 1510 SERIES



FEATURES:

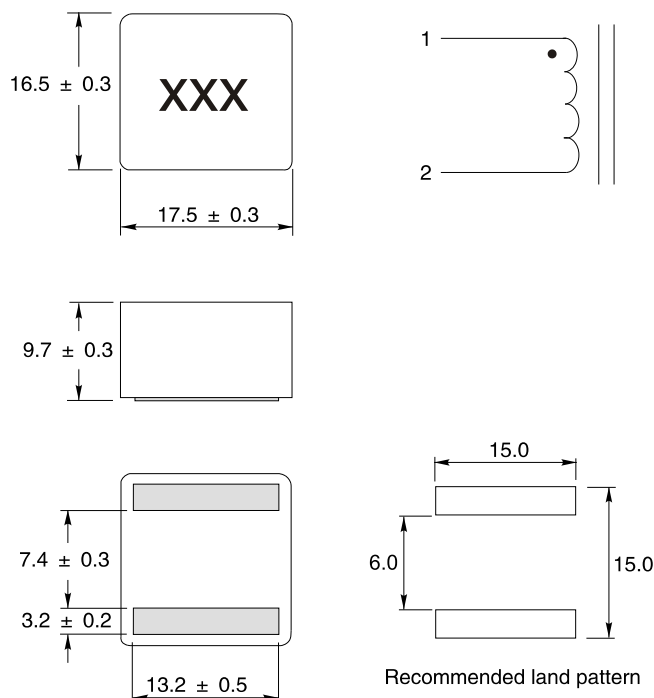
- High current; very low DCR
- Shielded construction.
- AEC-Q200 Grade 1 qualified (-40°C to $+125^{\circ}\text{C}$ ambient)
- Soft saturation makes them ideal for VRM/VRD applications
- Environmental RoHS compliant

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance $L_0(\mu\text{H}) \pm 20\%$ @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (m Ω)	DCR Max. (m Ω).
LPM1510-4R7M	4.7	30.0	39.0	3.4	3.8
LPM1510-5R6M	5.6	28.0	34.0	3.82	4.2
LPM1510-6R8M	6.8	26.0	31.0	4.18	4.6
LPM1510-8R2M	8.2	25.0	28.0	6.0	7.2
LPM1510-100M	10	24.0	26.0	7.1	8.6
LPM1510-150M	15	18.0	20.0	9.2	11.5
LPM1510-220M	22	16.0	18.0	13.2	15.8
LPM1510-330M	33	13.0	16.7	18.7	20.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



- Test Frequency : 1MHz / 0.1Vdc@25 $^{\circ}\text{C}$.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Operating voltage: 0-55V
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^{\circ}\text{C}$ without core loss.
- Saturation Current (Isat) will cause L_0 to drop approximately 30%
- The part temperature (ambient + temp rise) should not exceed 165 $^{\circ}\text{C}$ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Ambient Temperature: -55°C - $+125^{\circ}\text{C}$.
- Storage Temperature: -55°C - $+165^{\circ}\text{C}$.

Note:All specifications subject to change without notice.

SMD MOLDED POWER INDUCTORS

LPM 1513 SERIES



FEATURES:

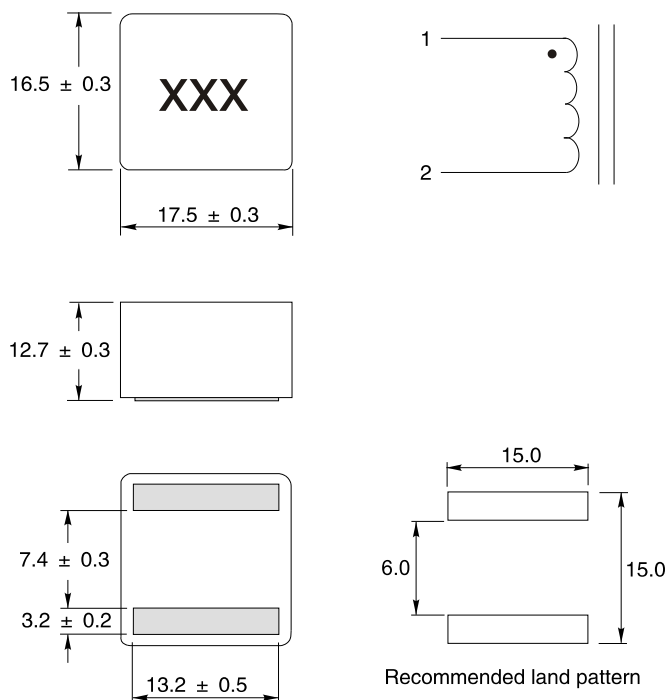
- High current; very low DCR
- Shielded construction.
- AEC-Q200 Grade 1 qualified (-40°C to $+125^{\circ}\text{C}$ ambient)
- Soft saturation makes them ideal for VRM/VRD applications
- Environmental RoHS compliant

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance $L_0(\mu\text{H}) \pm 20\%$ @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (m Ω)	DCR Max. (m Ω).
LPM1513-4R7M	4.7	31.0	40.0	3.0	3.3
LPM1513-5R6M	5.6	29.0	35.0	3.5	3.9
LPM1513-6R8M	6.8	27.0	32.0	3.8	4.2
LPM1513-8R2M	8.2	26.0	29.0	5.1	5.74
LPM1513-100M	10	25.0	27.0	6.3	7.0
LPM1513-150M	15	22.0	19.0	6.5	7.2
LPM1513-220M	22	17.0	19.0	12.6	13.86
LPM1513-330M	33	14.0	16.0	18.5	22.2

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

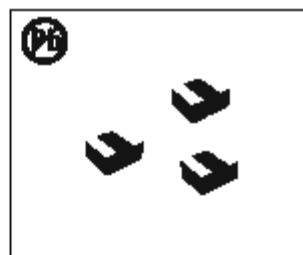


- Test Frequency : 1MHz / 0.1Vdc@25 $^{\circ}\text{C}$.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Operating voltage: 0-55V
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^{\circ}\text{C}$ without core loss.
- Saturation Current (Isat) will cause L_0 to drop approximately 30%
- The part temperature (ambient + temp rise) should not exceed 165 $^{\circ}\text{C}$ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Ambient Temperature: -55°C - $+125^{\circ}\text{C}$.
- Storage Temperature: -55°C - $+165^{\circ}\text{C}$.

Note:All specifications subject to change without notice.

SMD MOLDED POWER INDUCTORS

LPM0110 SERIES



FEATURES:

- High performance (ferr) realized by metal dust core.
- Low profile: 1.20mm x 1.00mm x 0.60mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

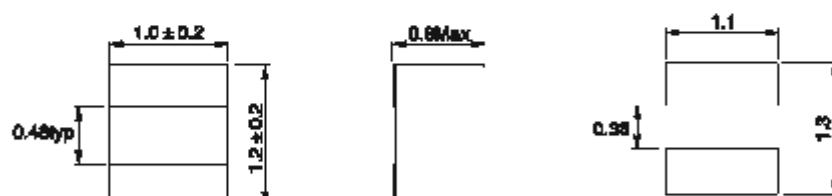
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

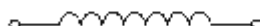
Part Number	Inductance tolerance	Inductance L0(μH) @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Max. (mΩ).
LPM0110-R22M	20%	0.22	1.7	2.16	60
LPM0110-R33M	20%	0.33	1.53	1.90	60
LPM0110-R47M	20%	0.47	1.40	1.40	98
LPM0110-1R0M	20%	1.0	0.96	1.04	201
LPM0110-1R5M	20%	1.5	0.81	0.74	276
LPM0110-2R2M	20%	2.2	0.75	0.61	338
LPM0110-3R3M	20%	3.3	0.62	0.47	516
LPM0110-4R7M	20%	4.7	0.43	0.41	748
LPM0110-100M	20%	10	0.32	0.32	1500

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 1.0MHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0420C SERIES

FEATURES:

- High performance (best) realized by Carbonyl iron powder
- Low profile: 4.5mm x 4.0mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

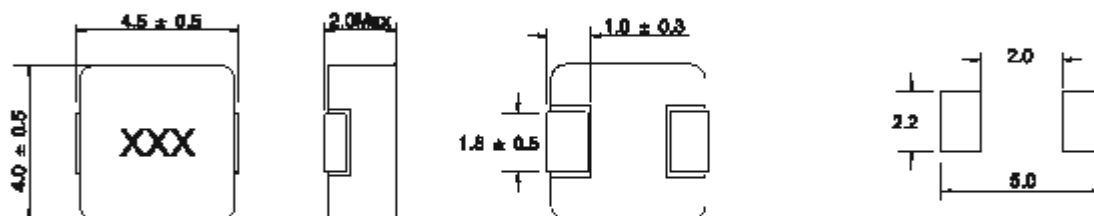


ELECTRICAL CHARACTERISTICS:

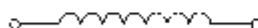
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps (DC(A)	Saturation current DC Amps (sat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0420C-R10M	0.10	18.0	35.0	3.50	4.20
LPM0420C-R15M	0.15	15.0	28.0	3.70	4.50
LPM0420C-R22M	0.22	12.0	23.0	5.10	6.00
LPM0420C-R33M	0.33	10.0	17.0	8.30	8.80
LPM0420C-R47M	0.47	9.0	16.0	12.8	16.0
LPM0420C-R56M	0.56	8.0	13.0	13.0	18.0
LPM0420C-R68M	0.68	7.0	12.0	16.0	19.0
LPM0420C-1R0M	1.0	6.0	10.0	23.5	28.0
LPM0420C-1R2M	1.2	5.0	9.0	27.0	32.0
LPM0420C-1R5M	1.5	4.5	8.0	31.0	37.0
LPM0420C-2R2M	2.2	4.0	7.0	53.0	60.0
LPM0420C-3R3M	3.3	3.5	6.0	86.0	95.0
LPM0420C-4R7M	4.7	3.0	5.0	112.0	125.0
LPM0420C-5R6M	5.6	2.8	4.5	146.0	173.0
LPM0420C-6R8M	6.8	2.5	4.0	165.0	185.0
LPM0420C-8R2M	8.2	2.0	3.0	241.0	280.0
LPM0420C-100M	10.0	1.6	3.0	285.0	310.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensional(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0515C SERIES

FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 5.5mm x 5.2mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

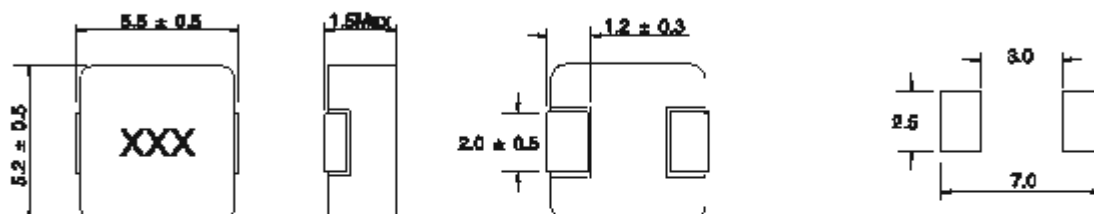


ELECTRICAL CHARACTERISTICS:

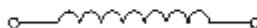
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps (DC(A)	Saturation current DC Amps (sat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0515C-R15M	0.15	16.0	26.0	4.50	5.40
LPM0515C-R22M	0.22	15.0	25.0	6.50	7.80
LPM0515C-R47M	0.47	12.0	20.0	11.0	13.0
LPM0515C-R68M	0.68	10.0	15.0	11.0	13.5
LPM0515C-1R0M	1.0	8.0	10.0	19.5	24.0
LPM0515C-2R2M	2.2	5.0	7.0	63.0	70.0
LPM0515C-3R3M	3.3	4.0	6.0	68.0	75.0
LPM0515C-4R7M	4.7	3.0	5.0	108.0	118.0
LPM0515C-5R6M	5.6	2.8	4.5	126.0	140.0
LPM0515C-6R8M	6.8	2.5	4.2	142.0	155.0
LPM0515C-8R2M	8.2	2.4	4.0	175.0	190.0
LPM0515C-100M	10.0	2.3	3.8	255.0	280.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0518C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 5.6mm x 6.2mm x 1.8mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

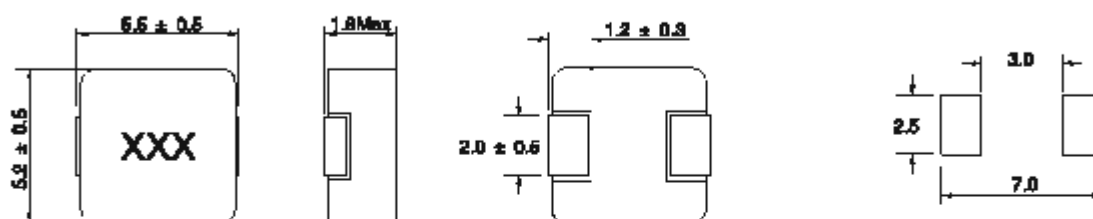
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

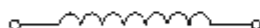
[illegible]

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensional model



Winning



Notizen

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause LG to drop approximately 80%
- Operating Temperature Range –55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0520C SERIES

FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 5.5mm x 5.2mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

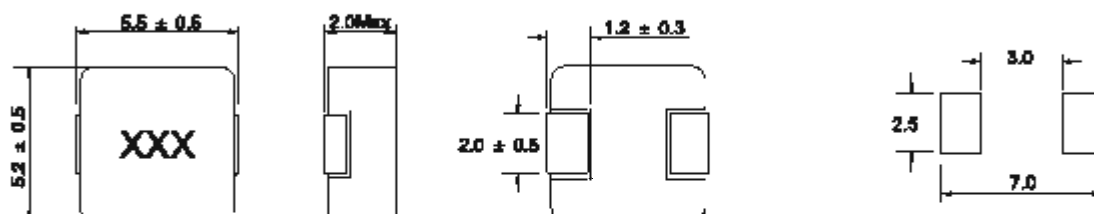


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0520C-R10M	0.10	20.0	32.0	3.00	3.60
LPM0520C-R22M	0.22	18.0	28.0	4.30	5.20
LPM0520C-R33M	0.33	16.0	26.0	6.6	10.5
LPM0520C-R47M	0.47	14.0	24.0	8.8	10.5
LPM0520C-R68M	0.68	12.0	18.0	12.0	15.0
LPM0520C-1R0M	1.0	10.0	15.0	17.0	20.0
LPM0520C-1R5M	1.5	7.0	13.0	28.0	33.0
LPM0520C-2R2M	2.2	6.0	9.0	33.0	39.0
LPM0520C-3R3M	3.3	5.0	8.0	60.0	70.0
LPM0520C-4R7M	4.7	4.0	6.0	84.0	95.0
LPM0520C-5R6M	5.6	3.5	5.0	84.0	95.0
LPM0520C-6R8M	6.8	3.0	4.5	93.0	105.0
LPM0520C-8R2M	8.2	2.5	4.0	132.0	145.0
LPM0520C-100M	10.0	2.0	3.5	155.0	175.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0530C SERIES

FEATURES:

- High performance (best) realized by Carbonyl Iron powder
- Low profile: 5.6mm x 5.2mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

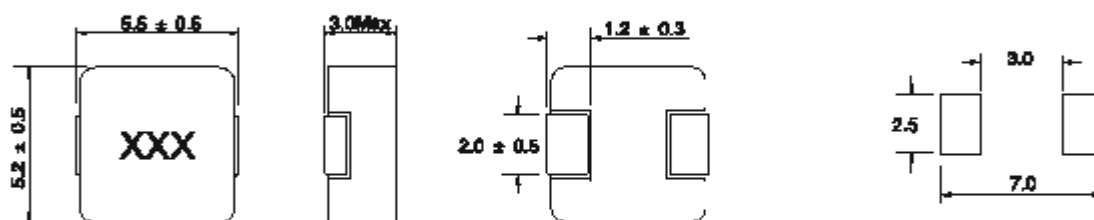


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps (DC(A)	Saturation current DC Amps (sat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0530C-R10M	0.10	23.0	38.0	2.80	3.30
LPM0530C-R15M	0.15	22.0	35.0	2.80	3.50
LPM0530C-R22M	0.22	19.0	32.0	4.00	5.00
LPM0530C-R33M	0.33	18.0	28.0	5.10	6.00
LPM0530C-R47M	0.47	16.0	26.0	6.50	8.00
LPM0530C-R68M	0.68	14.0	24.0	8.0	10.0
LPM0530C-1R0M	1.0	12.0	18.0	11.5	14.0
LPM0530C-1R2M	1.2	11.0	18.0	11.5	14.0
LPM0530C-1R5M	1.5	9.0	14.0	15.5	18.5
LPM0530C-2R2M	2.2	8.0	13.0	25.5	31.0
LPM0530C-3R3M	3.3	7.0	11.0	32.5	37.0
LPM0530C-4R7M	4.7	5.5	9.0	58.0	66.0
LPM0530C-5R8M	5.8	5.0	8.0	83.0	72.0
LPM0530C-6R8M	6.8	4.5	7.0	76.0	66.0
LPM0530C-100M	10.0	4.0	6.0	111.0	122.0
LPM0530C-150M	15.0	3.0	5.0	153.0	168.0
LPM0530C-330M	33.0	2.0	3.5	315.0	340.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0620C SERIES

P6



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

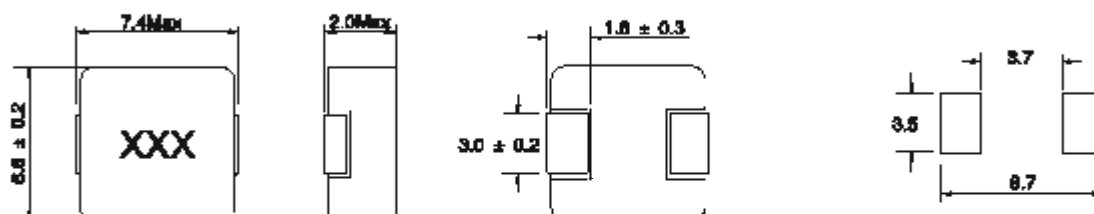
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

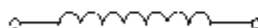
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0620C-R10M	0.10	21.0	45.0	2.70	3.30
LPM0620C-R22M	0.22	17.0	30.0	2.80	3.50
LPM0620C-R33M	0.33	15.0	26.0	5.60	7.00
LPM0620C-R47M	0.47	11.0	23.0	6.10	7.80
LPM0620C-R68M	0.68	10.0	21.0	9.8	12.0
LPM0620C-1R0M	1.00	9.0	20.0	16.0	19.0
LPM0620C-1R5M	1.50	8.0	18.0	22.0	26.0
LPM0620C-2R2M	2.20	6.0	12.0	32.0	38.0
LPM0620C-3R3M	3.30	5.0	9.0	45.0	53.0
LPM0620C-4R7M	4.70	4.5	8.0	53.0	62.0
LPM0620C-6R8M	6.80	4.0	6.0	114.0	128.0
LPM0620C-100M	10.00	3.0	5.0	147.0	183.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0624C SERIES

PG



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.8mm x 2.4mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

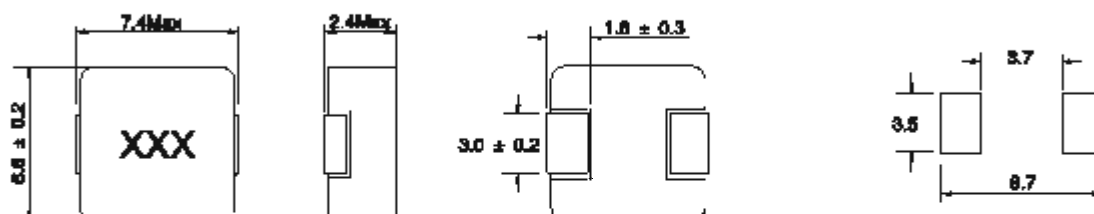
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

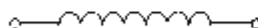
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0624C-R10M	0.10	30.0	60.0	1.30	1.60
LPM0624C-R22M	0.22	21.0	34.0	2.50	3.00
LPM0624C-R47M	0.47	16.0	26.0	4.00	4.80
LPM0624C-R68M	0.68	14.0	23.0	7.10	8.50
LPM0624C-R82M	0.82	13.0	22.0	9.6	11.5
LPM0624C-1R0M	1.0	12.0	22.0	11.3	13.0
LPM0624C-1R5M	1.5	10.0	18.0	14.0	17.0
LPM0624C-2R2M	2.2	8.0	14.0	22.0	26.0
LPM0624C-3R3M	3.3	7.0	12.0	32.0	38.0
LPM0624C-4R7M	4.7	6.0	11.0	47.0	55.0
LPM0624C-6R8M	6.8	5.0	9.0	65.0	75.0
LPM0624C-8R2M	8.2	4.5	8.0	82.0	90.0
LPM0624C-100M	10.0	4.0	7.0	96.0	115.0
LPM0624C-150M	15.0	3.5	6.0	122.0	138.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0630C SERIES



FEATURES:

- High performance (test) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

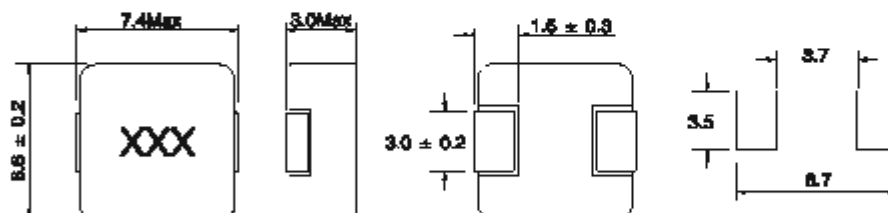
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM0630C-R10M	0.10	30.0	75.0	1.20	1.50
LPM0630C-R12M	0.12	29.0	80.0	1.70	2.10
LPM0630C-R15M	0.15	28.0	53.0	1.70	2.10
LPM0630C-R22M	0.22	25.0	45.0	2.20	2.70
LPM0630C-R33M	0.33	23.0	35.0	2.80	3.20
LPM0630C-R36M	0.36	22.0	32.0	3.20	4.00
LPM0630C-R47M	0.47	21.0	31.0	3.50	4.50
LPM0630C-R56M	0.68	20.0	30.0	4.90	6.00
LPM0630C-R82M	0.82	16.0	28.0	7.30	8.50
LPM0630C-1R0M	1.0	13.0	26.0	7.50	9.00
LPM0630C-1R2M	1.2	12.0	22.0	9.3	11.0
LPM0630C-1R5M	1.5	11.0	20.0	10.5	13.0
LPM0630C-2R2M	2.2	10.0	18.0	14.5	19.5
LPM0630C-3R3M	3.3	9.0	15.0	25.0	30.0
LPM0630C-4R7M	4.7	8.0	14.0	36.0	40.0
LPM0630C-5R6M	5.6	7.0	13.0	43.0	51.0
LPM0630C-6R8M	6.8	6.0	11.0	54.0	63.0
LPM0630C-100M	10.0	4.5	8.0	78.0	88.0
LPM0630C-150M	15.0	3.5	6.0	94.0	105.0
LPM0630C-220M	22.0	2.5	4.0	122.0	138.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0640C SERIES

PG



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

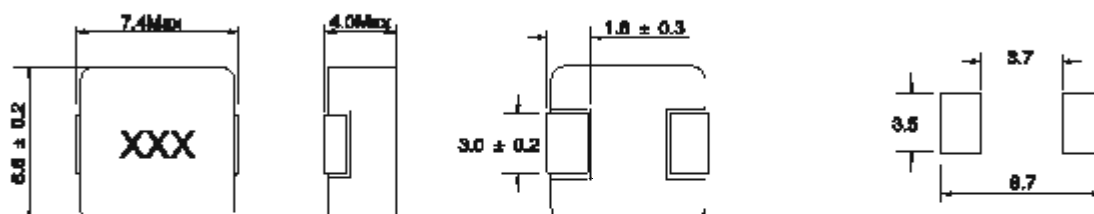
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

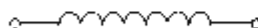
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM0640C-R15M	0.15	40.0	65.0	0.65	0.80
LPM0640C-R22M	0.22	35.0	48.0	0.99	1.05
LPM0640C-R33M	0.33	25.0	36.0	1.90	2.04
LPM0640C-R56M	0.56	22.0	30.0	3.50	4.50
LPM0640C-1R0M	1.0	14.0	25.0	5.70	7.00
LPM0640C-2R2M	2.2	11.0	20.0	11.2	13.5
LPM0640C-3R3M	3.3	9.0	18.0	15.0	18.0
LPM0640C-4R7M	4.7	8.0	15.0	22.0	26.0
LPM0640C-5R6M	5.6	7.0	14.0	29.0	35.0
LPM0640C-6R8M	6.8	6.5	13.0	31.0	37.0
LPM0640C-100M	10.0	5.0	12.0	59.0	70.0
LPM0640C-120M	12.0	4.0	8.0	65.0	80.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0650C SERIES

FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 7.4mm x 6.6mm x 5.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

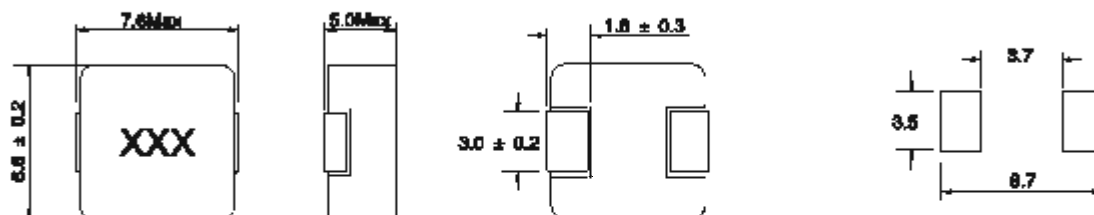


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0650C-R47M	0.47	22.0	30.0	3.20	3.60
LPM0650C-1R0M	1.0	16.0	26.0	6.00	7.50
LPM0650C-2R2M	2.2	11.0	18.0	9.90	12.0
LPM0650C-3R3M	3.3	9.0	17.0	17.5	20.0
LPM0650C-4R7M	4.7	7.0	16.0	26.0	32.0
LPM0650C-5R6M	5.6	7.0	15.0	29.0	33.0
LPM0650C-6R8M	6.8	6.5	13.0	33.5	40.0
LPM0650C-100M	10.0	6.0	12.0	47.0	55.0
LPM0650C-160M	15.0	5.0	10.0	82.0	93.0
LPM0650C-220M	22.0	4.0	7.0	121.0	140.0
LPM0650C-330M	33.0	3.0	6.0	145.0	158.0
LPM0650C-470M	47.0	2.5	4.0	200.0	225.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0830C SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 9.2mm x 8.0mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

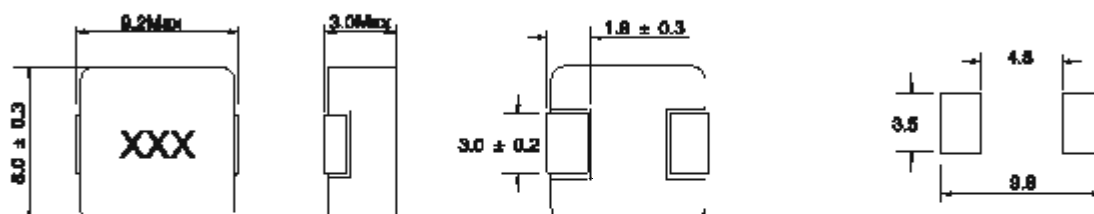
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

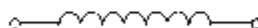
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0830C-R22M	0.22	30.0	55.0	1.50	1.80
LPM0830C-R33M	0.33	25.0	47.0	2.20	2.50
LPM0830C-R47M	0.47	20.0	38.0	3.10	3.90
LPM0830C-R56M	0.56	19.0	32.0	3.30	4.00
LPM0830C-1R0M	1.0	16.0	30.0	6.50	8.00
LPM0830C-1R5M	1.5	14.0	23.0	6.50	8.00
LPM0830C-2R2M	2.2	12.0	18.0	10.5	12.5
LPM0830C-3R3M	3.3	10.0	16.0	19.0	23.0
LPM0830C-4R7M	4.7	9.0	15.0	31.5	38.0
LPM0830C-5R6M	5.6	8.0	13.0	35.0	42.0
LPM0830C-6R8M	6.8	7.0	12.0	48.0	53.0
LPM0830C-8R2M	8.2	6.5	9.5	49.0	85.0
LPM0830C-100M	10.0	6.0	8.0	54.0	85.0
LPM0830C-330M	33.0	3.0	6.0	175.0	185.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0840C SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 9.2mm x 8.0mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

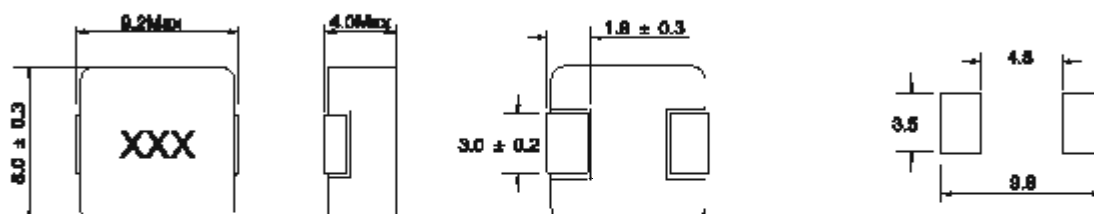
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM0840C-R22M	0.22	32.0	60.0	1.80	2.00
LPM0840C-R33M	0.33	30.0	55.0	2.10	2.50
LPM0840C-R47M	0.47	25.0	45.0	2.50	3.00
LPM0840C-R62M	0.62	20.0	30.0	3.00	3.80
LPM0840C-1R0M	1.0	18.0	26.0	4.50	5.50
LPM0840C-1R5M	1.5	15.0	24.0	5.30	6.50
LPM0840C-2R2M	2.2	13.0	22.0	10.1	12.5
LPM0840C-3R3M	3.3	11.0	20.0	16.0	19.0
LPM0840C-8R2M	8.2	6.0	11.0	40.5	48.0
LPM0840C-100M	10.0	6.0	10.0	48.0	55.0
LPM0840C-150M	15.0	5.0	8.0	60.0	68.0
LPM0840C-220M	22.0	4.0	7.0	102.0	110.2
LPM0840C-470M	47.0	3.0	5.5	191.0	205.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM0850C SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 9.2mm x 8.0mm x 5.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

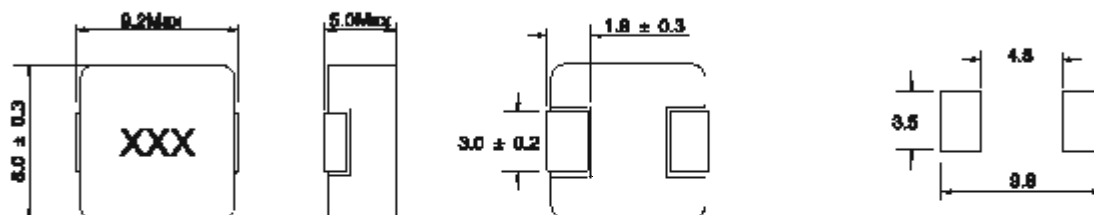
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM0850C-R15M	0.15	45.0	60.0	0.55	0.65
LPM0850C-R22M	0.22	35.0	55.0	0.80	1.00
LPM0850C-1R0M	1.0	20.0	30.0	4.70	5.50
LPM0850C-1R5M	1.5	17.0	26.0	6.10	7.00
LPM0850C-2R2M	2.2	15.0	24.0	9.4	12.0
LPM0850C-4R7M	4.7	11.0	22.0	18.0	21.0
LPM0850C-6R8M	6.8	10.0	18.0	26.5	31.0
LPM0850C-100M	10.0	8.0	16.0	41.0	47.0
LPM0850C-220M	22.0	5.0	10.0	81.0	88.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -66°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1020C SERIES



FEATURES:

- High performance (best) realized by Carbonyl iron powder
- Low profile: 10.6mm x 10.3mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

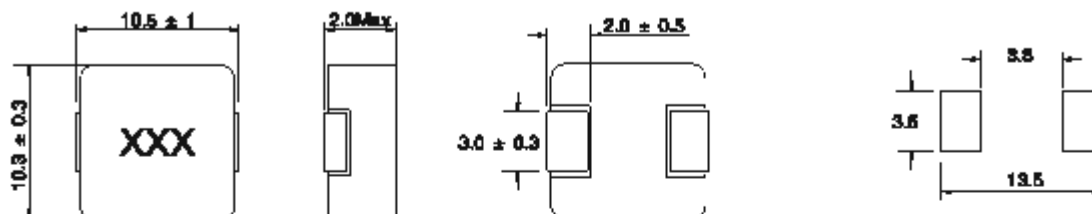
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

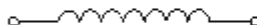
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1020C-R33M	0.33	29.0	38.0	1.80	2.30
LPM1020C-R47M	0.47	23.0	35.0	3.00	3.80
LPM1020C-1R0M	1.0	19.0	23.0	5.50	8.80
LPM1020C-2R2M	2.2	9.0	14.0	13.3	16.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1030C SERIES



FEATURES:

- High performance (best) realized by Carbonyl iron powder
- Low profile: 10.6mm x 10.3mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

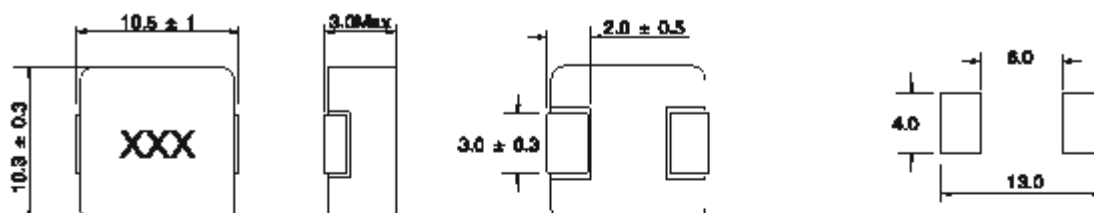
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1020C-R36M	0.36	25.0	55.0	1.30	1.50
LPM1020C-1R0M	1.0	18.0	33.0	6.80	8.00
LPM1020C-1R2M	1.2	17.0	32.0	6.80	8.00
LPM1020C-1R5M	1.5	14.0	28.0	7.80	9.80
LPM1020C-2R2M	2.2	12.0	20.0	9.0	11.0
LPM1020C-3R3M	3.3	9.0	18.0	14.0	17.0
LPM1020C-4R7M	4.7	8.0	15.0	16.5	19.5
LPM1020C-6R8M	6.8	7.0	12.0	32.5	38.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1040C SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

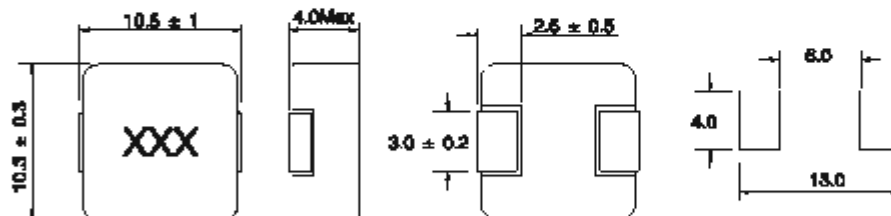
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

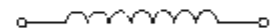
Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps I _{DC} (A)	Saturation current DC Ampe I _{sat} (A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1040C-R19M	0.19	40.0	100.0	0.79	0.95
LPM1040C-R22M	0.22	36.0	80.0	0.65	0.80
LPM1040C-R33M	0.33	32.0	70.0	1.05	1.30
LPM1040C-R36M	0.36	31.0	65.0	1.10	1.35
LPM1040C-R47M	0.47	30.0	60.0	1.15	1.40
LPM1040C-R56M	0.56	28.0	55.0	1.65	2.00
LPM1040C-R68M	0.68	25.0	50.0	2.20	2.60
LPM1040C-R82M	0.82	24.0	41.0	2.10	2.50
LPM1040C-1R0M	1.0	22.0	40.0	2.15	2.50
LPM1040C-1R2M	1.2	20.0	35.0	2.85	3.50
LPM1040C-1R5M	1.5	18.0	30.0	4.30	5.20
LPM1040C-2R2M	2.2	16.0	28.0	5.30	6.50
LPM1040C-3R3M	3.3	14.0	25.0	10.30	13.00
LPM1040C-4R7M	4.7	12.0	20.0	13.50	18.00
LPM1040C-5R6M	5.6	10.0	18.0	15.50	18.50
LPM1040C-6R8M	6.8	9.0	15.0	21.50	28.00
LPM1040C-8R2M	8.2	8.0	14.0	30.00	36.00
LPM1040C-100M	10	7.0	13.0	32.00	38.00
LPM1040C-220M	22	6.0	9.0	57.00	65.00
LPM1040C-330M	33	4.5	7.6	105.00	118.00
LPM1040C-470M	47	3.6	5.5	129.00	145.00

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1050C SERIES

PG



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

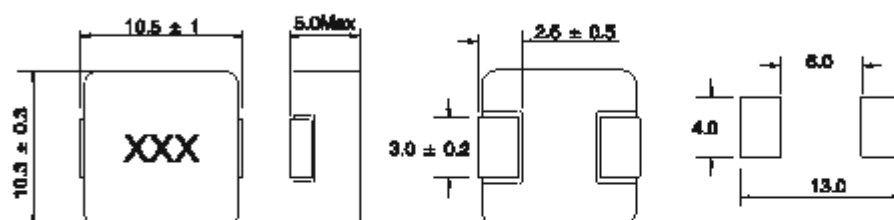
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

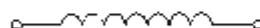
Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Ampe Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1040C-R36M	0.36	33.0	60.0	0.78	1.00
LPM1040C-R47M	0.47	32.0	70.0	1.10	1.40
LPM1040C-R56M	0.56	30.0	55.0	1.30	1.60
LPM1040C-R68M	0.68	28.0	50.0	1.30	1.60
LPM1040C-1R0M	1.00	24.0	45.0	2.10	2.50
LPM1040C-1R5M	1.50	20.0	42.0	2.90	3.50
LPM1040C-2R2M	2.20	18.0	40.0	6.0	7.10
LPM1040C-3R3M	3.30	16.0	30.0	7.8	10.0
LPM1040C-4R7M	4.70	14.0	23.0	9.8	12.0
LPM1040C-5R6M	5.60	12.0	20.0	11.5	14.0
LPM1040C-6R8M	6.80	11.0	19.0	14.8	18.0
LPM1040C-8R2M	8.20	10.0	16.0	23.0	27.0
LPM1040C-100M	10.00	9.0	16.0	24.5	28.0
LPM1040C-150M	15.00	7.0	11.0	45.0	53.0
LPM1040C-220M	22.00	6.0	10.0	48.0	53.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1050D SERIES



FEATURES:

- Alloy Iron powder Molded structure
- Low profile : 11.5mm x 10.2mm x 5.0mm
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

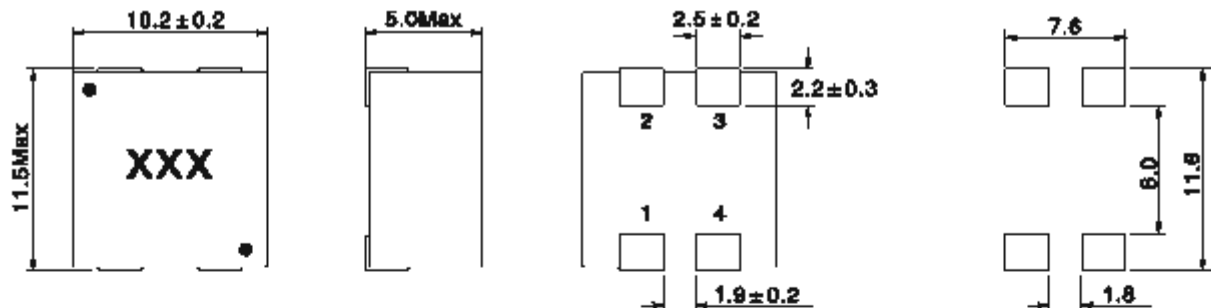
- Isolated converters, such as flyback converters
- Step-down, boost, SEPIC, Zeta, Cuk .
- A switching regulator with a second, unregulated output voltage.

ELECTRICAL CHARACTERISTICS:

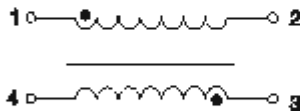
Part Number	Inductance L0(μH) ±20% @0Adc (1-2)=(3-4)	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ). (1-2)=(3-4)	DCR Max. (mΩ). (1-2)=(3-4)
LPM1050D-3R3M	3.3	7.0	32.0	18.3	22.0
LPM1050D-4R7M	4.7	6.0	30.0	27.0	32.0
LPM1050D-5R6M	5.6	5.0	23.0	38.5	45.0
LPM1050D-150M	15.0	3.0	13.0	82.0	95.0
LPM1050D-220M	22.0	2.5	10.0	102.0	115.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1060C SERIES

FEATURES:

- High performance (Isat) realized by Carbonyl-Iron powder
- Low profile: 11.3mm x 10mm x 6.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

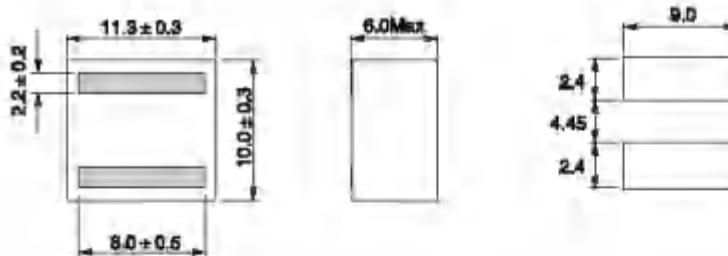


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1060C-1R0M	1.0	26.5	43.0	2.4	2.70
LPM1060C-1R5M	1.5	24.4	36.0	3.0	3.30
LPM1060C-2R2M	2.2	20.0	32.0	4.5	4.95
LPM1060C-3R3M	3.3	16.8	26.0	7.2	7.92
LPM1060C-4R7M	4.7	14.0	25.0	9.8	10.72

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%.
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1080D SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 11.2mm x 11.2mm x 8.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

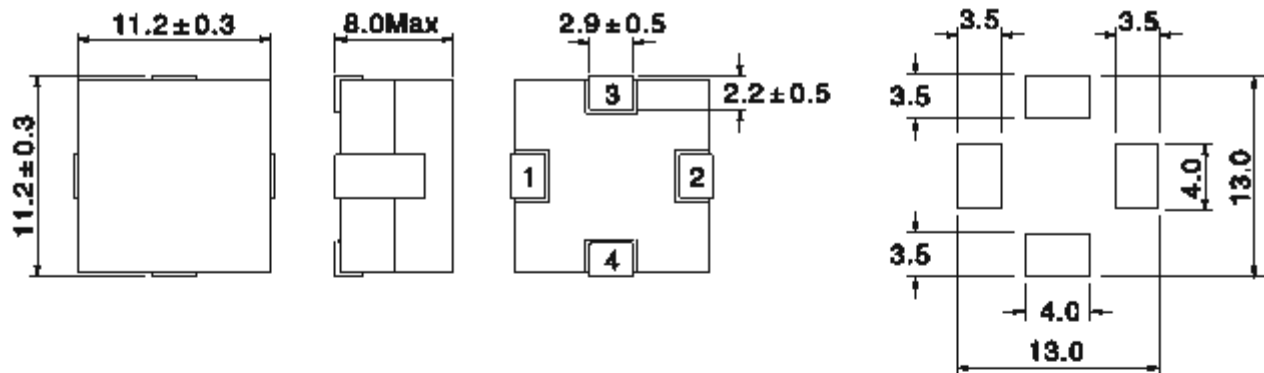
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

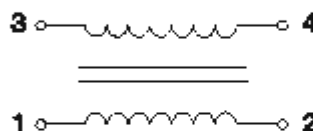
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1080D-8R2M	8.2	14.0	6.0	32.8	36.2
LPM1080D-100M	10.0	13.0	5.5	44.9	49.5
LPM1080D-150M	15.0	12.0	4.5	66.2	71.5
LPM1080D-220M	22.0	9.0	4.0	106.3	116.6

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 20%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1090D SERIES

FEATURES:

- Alloy Iron powder Molded structure
- Low profile : 11.5mm x 10.2mm x 9.0mm
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- Isolated converters, such as flyback converters
- Step-down, boost, SEPIC, Zeta, Cuk .
- A switching regulator with a second, unregulated output voltage.

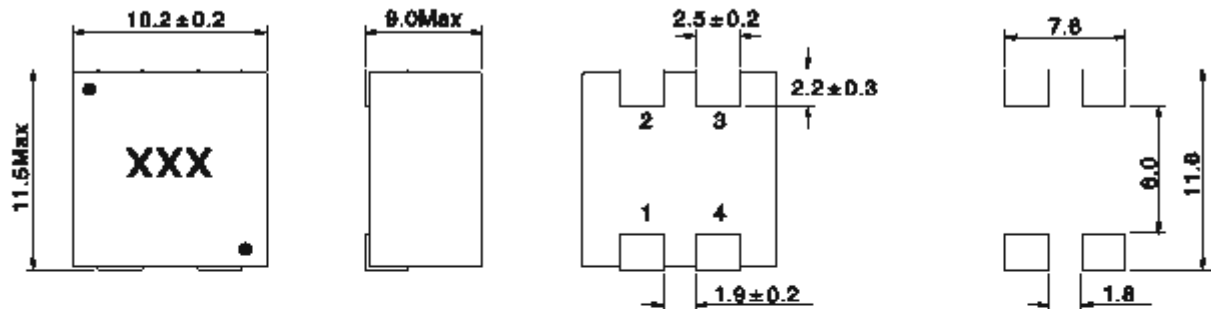


ELECTRICAL CHARACTERISTICS:

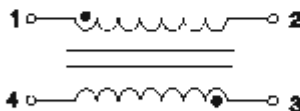
Part Number	Inductance L0(μH) ±20% @0Adc (1-2)=(3-4)	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ). (1-2)=(3-4)	DCR Max. (mΩ). (1-2)=(3-4)
LPM1090D-1R0M	1.0	17.0	43.5	4.6	5.6
LPM1090D-1R5M	1.5	12.5	34.0	8.7	9.4
LPM1090D-2R2M	2.2	11.5	29.5	10.6	12.5
LPM1090D-3R3M	3.3	7.5	26.2	23.3	26.0
LPM1090D-4R7M	4.7	7.0	24.2	36.2	40.0
LPM1090D-6R8M	6.8	6.5	21.2	46.1	51.5
LPM1090D-8R2M	8.2	6.0	18.5	56.3	63.0
LPM1090D-100M	10.0	5.5	17.0	62.5	69.0
LPM1090D-150M	15.0	5.0	22.0	73.0	87.0
LPM1090D-220M	22.0	4.0	18.0	91.0	106.0
LPM1090D-330M	33.0	3.5	10.0	121.5	145.0
LPM1090D-470M	47.0	2.3	6.0	216.0	240.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimension(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1213D SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low profile: 13.6mm x 13.6mm x 13.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

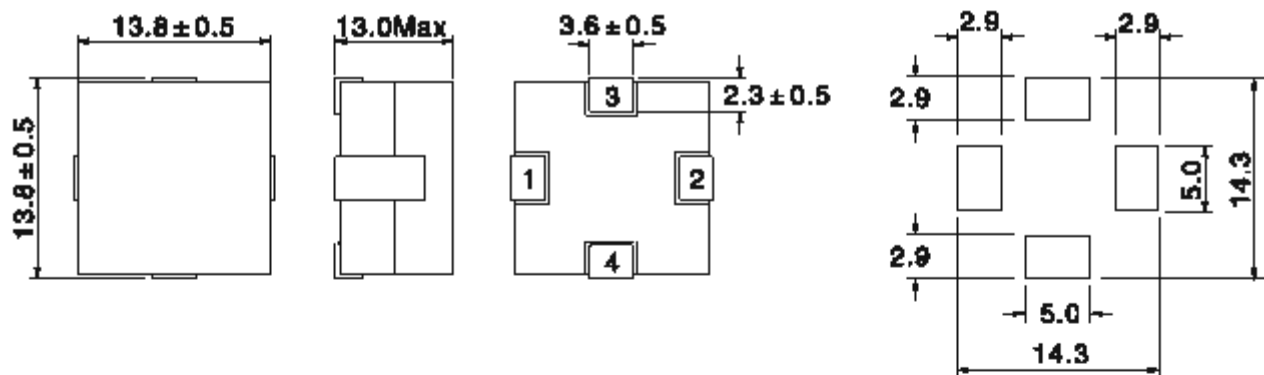
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc.
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

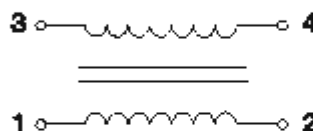
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1213D-8R2M	8.2	25.0	10.0	16.3	17.6
LPM1213D-100M	10.0	21.0	9.0	20.8	22.55
LPM1213D-150M	15.0	18.0	7.0	34.2	36.85
LPM1213D-220M	22.0	15.0	5.5	51.2	56.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 20%.
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1235C SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

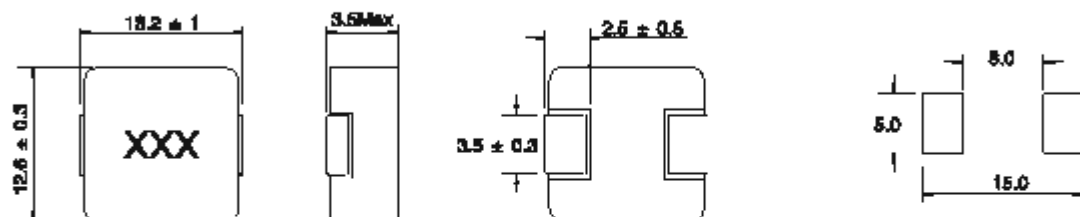
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

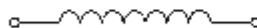
Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Ampe Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1235C-R10M	0.10	48.0	90.0	0.78	0.98
LPM1235C-R15M	0.15	48.0	80.0	0.85	0.85
LPM1235C-R22M	0.22	44.0	75.0	0.85	0.85
LPM1235C-R33M	0.33	35.0	70.0	1.10	1.40
LPM1235C-R47M	0.47	30.0	52.0	1.10	1.40
LPM1235C-R68M	0.68	28.0	62.0	2.10	2.50
LPM1235C-R82M	0.82	23.0	48.0	2.50	3.50
LPM1235C-1R0M	1.00	20.0	43.0	2.60	3.50
LPM1235C-1R5M	1.50	18.0	40.0	4.70	5.50
LPM1235C-2R2M	2.20	16.0	32.0	7.80	9.00
LPM1235C-3R3M	3.30	13.0	28.0	11.0	13.5
LPM1235C-4R7M	4.70	12.5	22.0	13.0	15.0
LPM1235C-5R6M	5.60	12.0	20.0	19.2	23.0
LPM1235C-6R8M	6.80	11.0	18.0	20.0	25.0
LPM1235C-8R2M	8.20	9.5	15.0	26.0	32.0
LPM1235C-100M	10.00	7.0	14.0	29.5	34.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1250C SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

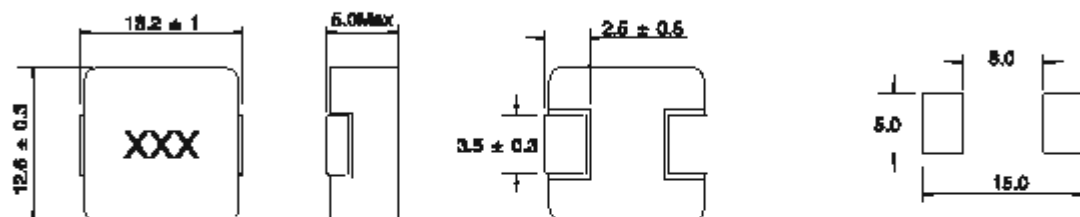
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Ampe Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM1250C-R10M	0.10	50.0	90.0	0.26	0.40
LPM1250C-R33M	0.33	42.0	85.0	0.75	1.10
LPM1250C-R36M	0.36	41.0	80.0	0.82	1.10
LPM1250C-R47M	0.47	40.0	75.0	0.90	1.20
LPM1250C-R68M	0.68	35.0	65.0	1.00	1.30
LPM1250C-R82M	0.82	32.0	60.0	1.70	2.20
LPM1250C-1R0M	1.0	29.0	55.0	2.10	2.50
LPM1250C-1R5M	1.5	25.0	50.0	2.70	3.50
LPM1250C-2R2M	2.2	20.0	40.0	4.30	5.50
LPM1250C-3R3M	3.3	16.0	35.0	7.2	9.0
LPM1250C-4R7M	4.7	14.0	33.0	10.4	13.0
LPM1250C-6R8M	6.8	12.0	26.0	15.0	18.0
LPM1250C-100M	10.0	10.0	18.0	25.5	30.0
LPM1250C-220M	22.0	7.0	11.0	45.0	53.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1260C SERIES



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

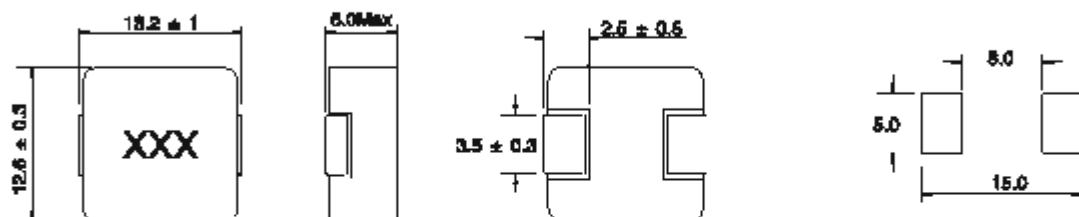
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

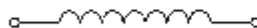
Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps I _{DC} (A)	Saturation current DC Ampe I _{sat} (A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1260C-R33M	0.33	45.0	90.0	0.75	1.00
LPM1260C-R36M	0.36	42.0	85.0	1.00	1.30
LPM1260C-R68M	0.68	36.0	70.0	1.10	1.40
LPM1260C-R82M	0.82	33.0	66.0	2.00	2.50
LPM1260C-1R0M	1.0	32.0	60.0	2.10	2.60
LPM1260C-1R5M	1.5	27.0	52.0	2.80	3.30
LPM1260C-2R2M	2.2	23.0	46.0	4.7	6.0
LPM1260C-3R3M	3.3	18.0	43.0	6.2	8.0
LPM1260C-4R7M	4.7	16.0	36.0	7.5	9.5
LPM1260C-6R8M	6.8	13.0	26.0	12.8	15.0
LPM1260C-100M	10.0	11.0	20.0	15.8	18.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (I_{me}) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (I_{sat}) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

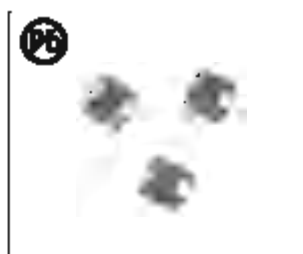
LPM1265C SERIES

FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

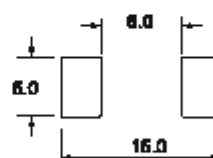
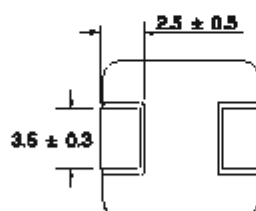
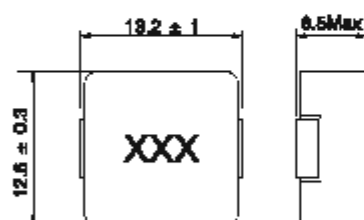


ELECTRICAL CHARACTERISTICS:

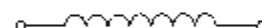
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Ampe Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1265C-R15M	0.15	60.0	120.0	0.37	0.50
LPM1265C-R22M	0.22	50.0	110.0	0.50	0.60
LPM1265C-R33M	0.33	48.0	100.0	0.60	0.80
LPM1265C-R47M	0.47	45.0	90.0	0.60	1.10
LPM1265C-R56M	0.56	40.0	80.0	1.00	1.30
LPM1265C-R68M	0.68	38.0	72.0	1.40	1.80
LPM1265C-1R0M	1.0	32.0	60.0	1.7	2.2
LPM1265C-1R5M	1.5	26.0	55.0	2.5	3.2
LPM1265C-2R2M	2.2	23.0	50.0	4.1	5.0
LPM1265C-3R3M	3.3	20.0	40.0	5.3	6.5
LPM1265C-4R7M	4.7	18.0	38.0	7.6	9.5
LPM1265C-5R6M	5.6	15.0	34.0	9.6	11.5
LPM1265C-6R8M	6.8	13.0	30.0	11.4	14.0
LPM1265C-100M	10.0	12.0	21.0	12.5	15.0
LPM1265C-150M	15.0	10.0	18.0	27.5	33.0
LPM1265C-220M	22.0	9.0	16.0	35.5	42.0
LPM1265C-330M	33.0	8.0	13.0	47.0	55.0
LPM1265C-470M	47.0	6.0	12.0	60.0	105.0
LPM1265C-560M	56.0	5.5	10.0	100.0	120.0
LPM1265C-680M	68.0	5.0	8.0	103.0	120.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1280C SERIES

P6



FEATURES:

- High performance (least) realized by Carbonyl iron powder
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

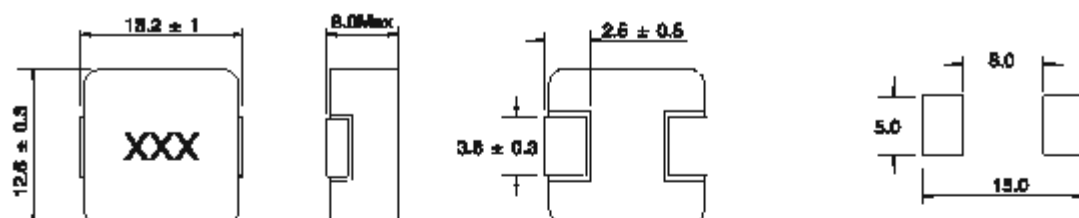
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

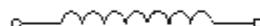
Part Number	Inductance L0(μH) ±20% @ 0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1280C-1R0M	1.0	35.0	38.0	1.05	1.2
LPM1280C-1R5M	1.5	30.0	35.0	1.35	1.5
LPM1280C-2R2M	2.2	28.0	30.0	1.80	2.2

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM1770C SERIES

FEATURES:

- High performance (least) realized by Carbonyl Iron powder
- Low profile: 18.0mm x 17.2mm x 7.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVD's, DSC's, POAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

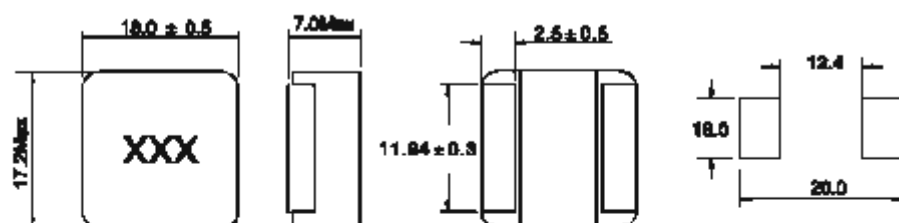


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM1770C-1R0M	1.0	50.0	60.0	1.4	1.7
LPM1770C-1R5M	1.5	45.0	70.0	1.7	2.1
LPM1770C-2R2M	2.2	40.0	62.0	2.4	2.7
LPM1770C-3R3M	3.3	35.0	50.0	3.5	4.2
LPM1770C-4R7M	4.7	30.0	43.0	3.9	5.0
LPM1770C-5R6M	5.6	25.0	40.0	4.4	5.5
LPM1770C-6R8M	6.8	20.0	35.0	6.6	8.0
LPM1770C-8R2M	8.2	18.0	31.0	6.6	8.5
LPM1770C-100M	10.0	16.0	28.0	8.7	11.0
LPM1770C-150M	15.0	14.0	26.0	16.0	23.0
LPM1770C-220M	22.0	12.0	20.0	28.5	26.5
LPM1770C-330M	33.0	10.0	17.0	27.0	35.0
LPM1770C-470M	47.0	9.0	11.0	40.0	48.0
LPM1770C-560M	56.0	8.0	13.0	55.0	62.0
LPM1770C-680M	68.0	7.5	12.0	67.0	80.0
LPM1770C-101M	100.0	7.0	12.0	102.0	115.0
LPM1770C-151M	150.0	4.0	7.0	135.0	165.0
LPM1770C-351M	350.0	3.0	6.0	375.0	406.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

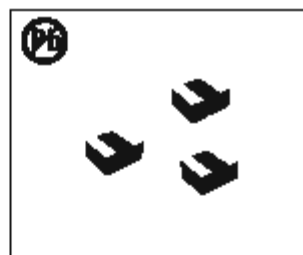
LPM2010C SERIES

FEATURES:

- High performance (fast) realized by Carbonyl Iron powder
- Low profile: 2.0mm x 1.6mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

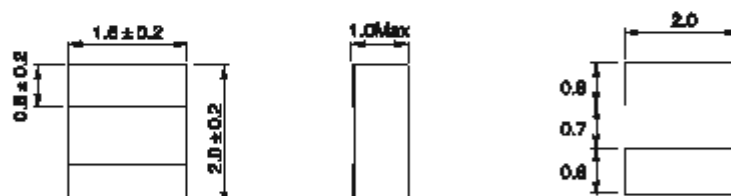


ELECTRICAL CHARACTERISTICS:

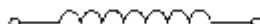
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2010C-R24M	0.24	6.3	7.2	16.5	20.0
LPM2010C-R33M	0.33	3.8	5.5	42.0	48.0
LPM2010C-R47M	0.47	4.5	7.0	30.0	35.0
LPM2010C-R56M	0.56	3.3	4.8	51.0	59.0
LPM2010C-R68M	0.68	4.0	4.5	46.0	52.0
LPM2010C-1R0M	1.00	3.0	3.5	85.0	76.0
LPM2010C-1R5M	1.50	2.1	3.0	105.0	120.0
LPM2010C-2R2M	2.20	1.5	2.4	160.0	204.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM2213C SERIES

FEATURES:

- High performance (fast) realized by Carbonyl Iron powder
- Low profile: 22.5mm x 22.0mm x 13.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVD's, DSCs, POAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

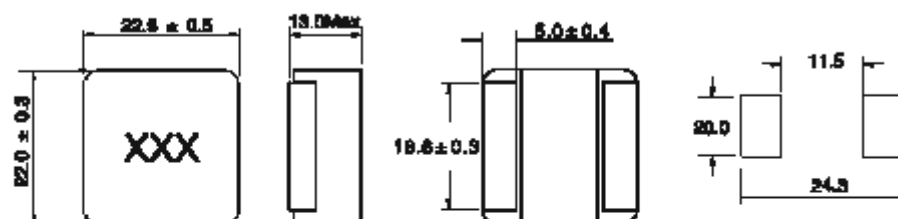


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2213C-R47M	0.47	80.0	100.0	0.55	0.67
LPM2213C-1R0M	1.0	88.0	71.0	0.65	0.69
LPM2213C-1R5M	1.5	85.0	53.0	0.90	1.20
LPM2213C-2R2M	2.2	58.0	48.0	1.10	1.25
LPM2213C-3R3M	3.3	48.0	41.0	1.40	1.80
LPM2213C-4R7M	4.7	47.0	37.0	1.70	1.84
LPM2213C-5R8M	5.6	40.0	35.5	2.00	2.50
LPM2213C-6R8M	6.8	38.0	33.0	2.90	3.09
LPM2213C-100M	10.0	28.0	28.0	3.80	4.14
LPM2213C-150M	15.0	23.5	24.0	5.50	6.11
LPM2213C-220M	22.0	17.5	18.0	8.00	10.80
LPM2213C-330M	33.0	15.5	15.5	14.50	15.40
LPM2213C-470M	47.0	13.5	10.0	15.30	17.70
LPM2213C-560M	56.0	13.0	11.0	23.00	28.00
LPM2213C-680M	68.0	12.5	13.0	31.50	36.00
LPM2213C-750M	75.0	12.0	12.0	30.00	32.95
LPM2213C-820M	82.0	10.2	9.0	31.50	34.20
LPM2213C-101M	100.0	9.1	7.0	37.60	38.40
LPM2213C-151M	150.0	6.0	8A Drop 30%	68.00	80.00
LPM2213C-201M	200.0	5.0	7A Drop 30%	92.00	105.00
LPM2213C-221M	220.0	4.5	6A Drop 30%	108.00	125.00
LPM2213C-401M	400.0	4.0	6A Drop 30%	208.00	230.00

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

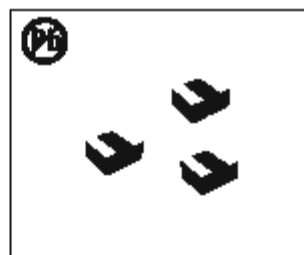


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (I_{ms}) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (I_{sat}) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM2510C SERIES



FEATURES:

- High performance (fast) realized by Carbonyl iron powder
- Low profile: 2.5mm x 2.0mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

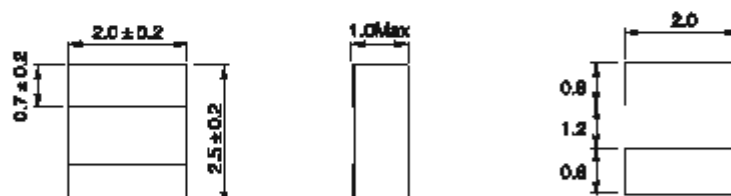
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

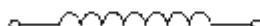
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2510C-1R0M	1.0	3.5	4.5	45.0	52.0
LPM2510C-2R2M	2.2	2.3	3.0	102.0	118.0
LPM2510C-3R3M	3.3	1.8	2.3	125.0	142.0
LPM2510C-4R7M	4.7	1.5	1.8	204.0	235.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

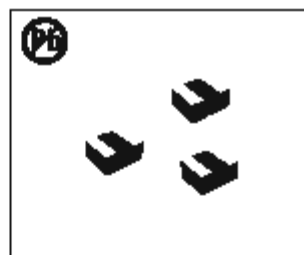
LPM2512C SERIES

FEATURES:

- High performance (fast) realized by Carbonyl iron powder
- Low profile: 2.5mm x 2.0mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

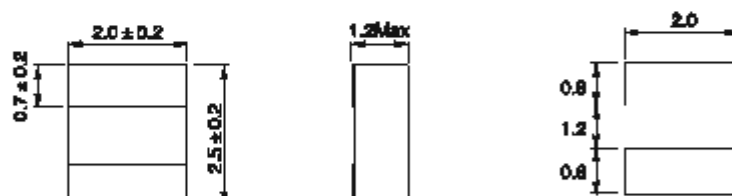


ELECTRICAL CHARACTERISTICS:

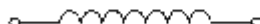
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM2512C-R22M	0.22	8.0	10.0	10.0	13.0
LPM2512C-R33M	0.33	6.5	9.0	13.8	20.0
LPM2512C-R47M	0.47	5.5	8.0	21.0	28.0
LPM2512C-R68M	0.68	5.2	6.5	29.5	35.0
LPM2512C-1R0M	1.0	5.0	5.5	30.0	35.0
LPM2512C-1R5M	1.5	3.2	5.0	62.0	70.0
LPM2512C-2R2M	2.2	2.8	3.5	65.0	62.0
LPM2512C-3R3M	3.3	2.0	3.0	123.0	140.0
LPM2512C-4R7M	4.7	1.8	2.5	175.0	195.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

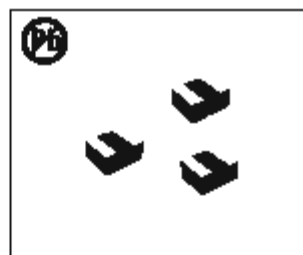


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3210C SERIES



FEATURES:

- High performance (fast) realized by Carbonyl iron powder
- Low profile: 3.2mm x 2.5mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

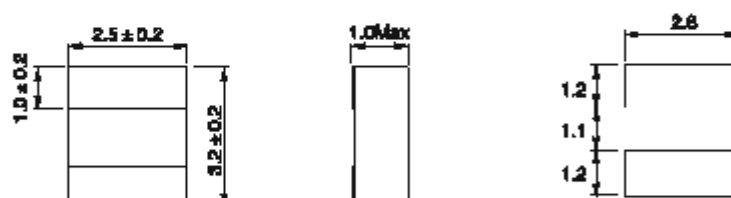
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

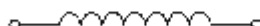
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM3210C-1R0M	1.0	4.0	6.0	40.0	48.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

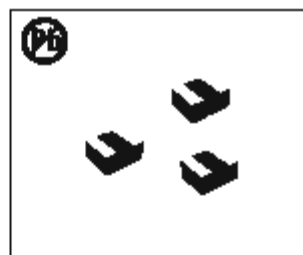


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3212C SERIES



FEATURES:

- High performance (fast) realized by Carbonyl iron powder
- Low profile: 3.2mm x 2.5mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

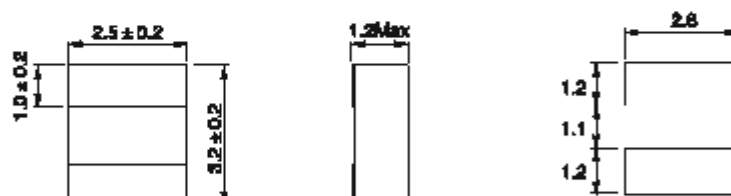
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

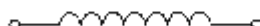
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM3212C-4R7M	4.7	2.0	3.0	169.0	192.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

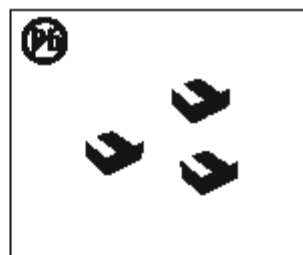


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3215C SERIES



FEATURES:

- High performance (fast) realized by Carbonyl iron powder
- Low profile: 3.2mm x 2.5mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

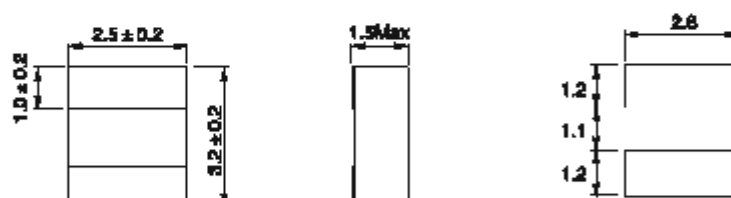
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

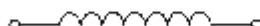
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM3215C-R22M	0.22	18.0	11.0	7.0	7.9

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

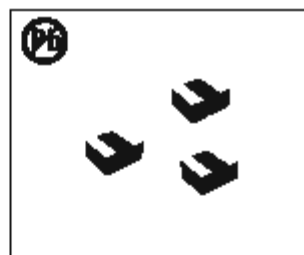


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM3220C SERIES



FEATURES:

- High performance (fast) realized by Carbonyl iron powder
- Low profile: 3.2mm x 2.5mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

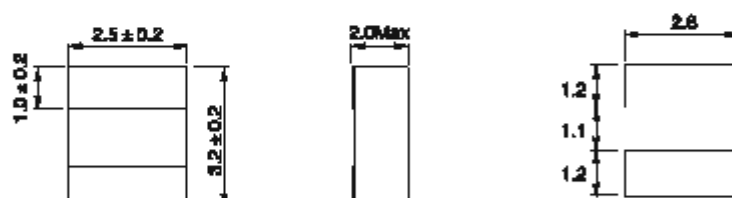
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

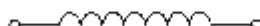
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM3220C-1R0M	1.00	5.4	10.0	17.8	22.0
LPM3220C-2R2M	2.20	4.0	7.0	42.0	60.0
LPM3220C-3R3M	3.30	3.0	5.5	58.0	66.0
LPM3220C-4R7M	4.70	2.8	4.5	98.0	120.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

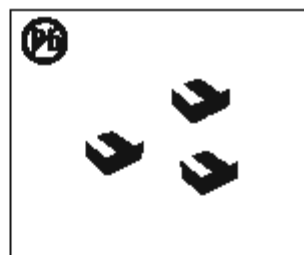


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4010C SERIES



FEATURES:

- High performance (fast) realized by Carbonyl iron powder
- Low profile: 4.0mm x 4.0mm x 1.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

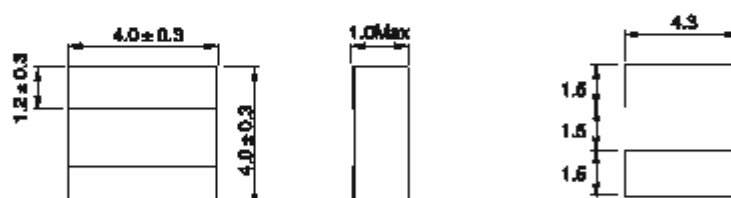
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

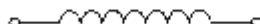
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM4010C-1R0M	1.0	3.5	7.0	38.0	46.0
LPM4010C-2R2M	2.2	3.2	4.5	72.0	85.0
LPM4010C-3R3M	3.3	2.8	4.0	105.0	120.0
LPM4010C-4R7M	4.7	2.5	3.0	138.0	160.0
LPM4010C-6R8M	6.8	2.0	2.5	185.0	185.0
LPM4010C-100M	10.0	1.5	2.0	290.0	330.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

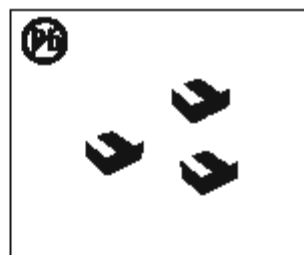
LPM4012C SERIES

FEATURES:

- High performance (fast) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 1.2mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

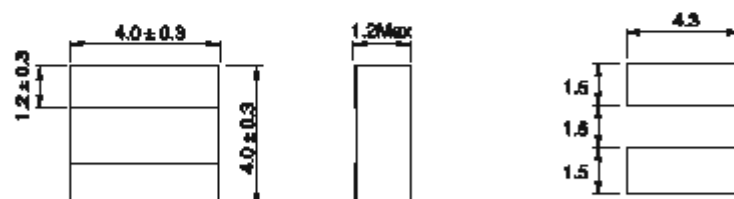


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM4012C-R25M	0.25	8.0	11.0	8.0	10.0
LPM4012C-R47M	0.47	7.0	9.5	20.0	25.0
LPM4012C-R68M	0.68	6.0	8.0	25.0	30.0
LPM4012C-1R0M	1.0	5.0	7.0	27.0	33.0
LPM4012C-1R5M	1.5	4.2	6.5	43.0	55.0
LPM4012C-2R2M	2.2	4.0	6.0	52.0	63.0
LPM4012C-3R3M	3.3	3.5	5.0	78.0	90.0
LPM4012C-4R7M	4.7	3.0	4.5	98.0	110.0
LPM4012C-5R8M	5.8	2.5	4.0	121.0	140.0
LPM4012C-6R8M	6.8	2.3	3.5	140.0	160.0
LPM4012C-100M	10.0	1.8	2.5	210.0	240.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding

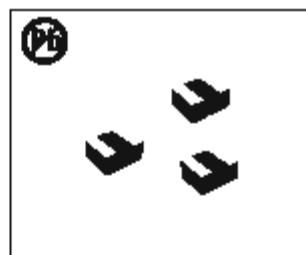


Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (lrms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4015C SERIES



FEATURES:

- High performance (refr.) realized by Carbyonyl iron powder
- Low profile: 4.0mm x 4.0mm x 1.5mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

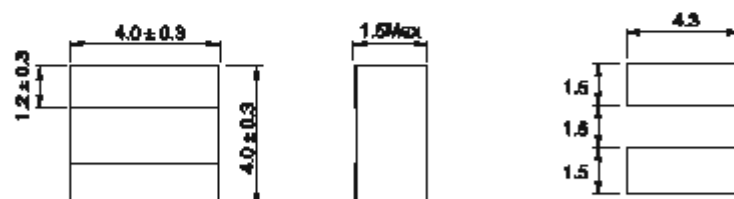
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVDs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

[illegible]

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Elmestrolone (nm)



Windows

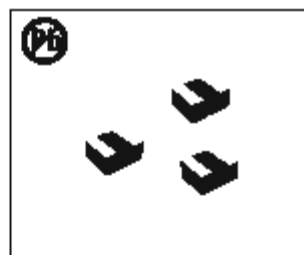


History

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause LO to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM4020C SERIES



FEATURES:

- High performance (fast) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

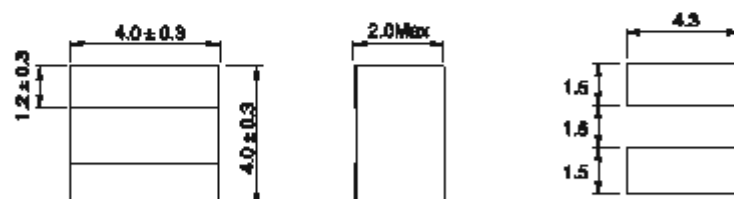
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM4020C-R33M	0.33	18.0	20.0	8.00	8.00
LPM4020C-R47M	0.47	12.0	18.0	7.80	9.00
LPM4020C-R68M	0.68	10.0	15.0	9.8	13.0
LPM4020C-1R0M	1.0	8.0	12.0	14.0	17.0
LPM4020C-1R5M	1.5	8.0	10.0	18.0	20.0
LPM4020C-2R2M	2.2	5.0	8.0	27.0	34.0
LPM4020C-3R3M	3.3	4.5	6.0	36.0	43.0
LPM4020C-4R7M	4.7	4.0	5.5	52.0	63.0
LPM4020C-100M	10.0	2.8	4.0	110.0	125.0
LPM4020C-220M	22.0	1.7	2.8	258.0	260.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (lrms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

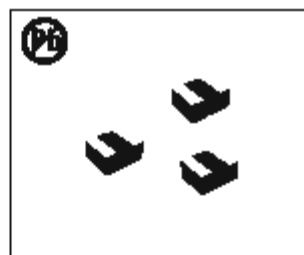
LPM4030C SERIES

FEATURES:

- High performance (fast) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

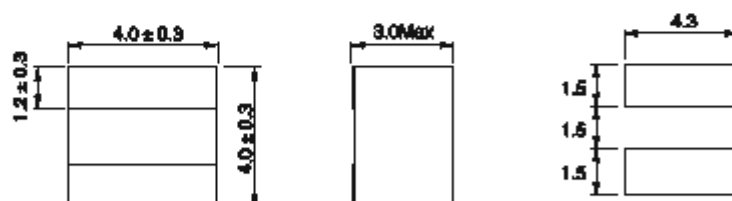


ELECTRICAL CHARACTERISTICS:

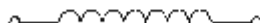
Part Number	Inductance L0(μH) ±20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM4030C-R15M	0.15	28.0	24.0	1.8	1.9
LPM4030C-R30M	0.30	24.0	17.0	2.5	2.9
LPM4030C-R47M	0.47	21.2	14.2	3.4	3.9
LPM4030C-R68M	0.68	14.0	12.0	4.2	4.8
LPM4030C-1R0M	1.0	18.0	10.8	8.5	7.2
LPM4030C-1R5M	1.5	10.2	8.8	9.5	10.5
LPM4030C-2R2M	2.2	8.7	7.0	13.5	15.0
LPM4030C-3R3M	3.3	7.5	5.3	19.9	21.9
LPM4030C-4R7M	4.7	6.8	4.4	28.5	31.5
LPM4030C-6R8M	6.8	4.7	3.65	43.5	47.9
LPM4030C-8R2M	8.2	4.2	3.45	50.6	55.7
LPM4030C-100M	10.0	3.8	3.1	63.0	69.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 50%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

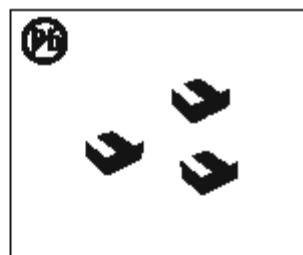
LPM4040C SERIES

FEATURES:

- High performance (fast) realized by Carbonyl Iron powder
- Low profile: 4.0mm x 4.0mm x 4.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

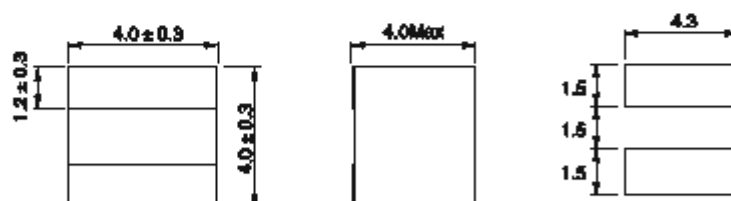


ELECTRICAL CHARACTERISTICS:

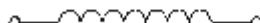
Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM4040C-R15M	0.15	90.2	21.0	1.5	1.8
LPM4040C-R30M	0.30	24.8	15.3	2.2	2.6
LPM4040C-R47M	0.47	20.8	12.2	2.8	3.2
LPM4040C-R68M	0.68	18.3	10.5	3.5	4.0
LPM4040C-1R0M	1.00	14.8	9.9	4.8	5.6
LPM4040C-1R5M	1.50	12.5	7.9	6.6	7.9
LPM4040C-2R2M	2.20	11.0	6.4	10.1	11.5
LPM4040C-3R3M	3.30	8.7	5.5	15.0	16.6
LPM4040C-4R7M	4.70	7.1	4.4	22.2	24.5
LPM4040C-6R8M	6.80	5.8	4.0	31.5	34.7
LPM4040C-100M	10.00	5.0	2.8	46.8	50.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 50%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

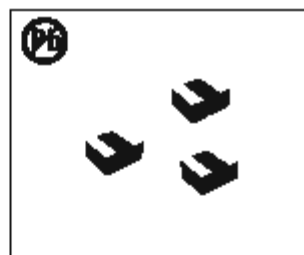
LPM5020C SERIES

FEATURES:

- High performance (fast) realized by Carbonyl Iron powder
- Low profile: 5.2mm x 5.4mm x 2.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

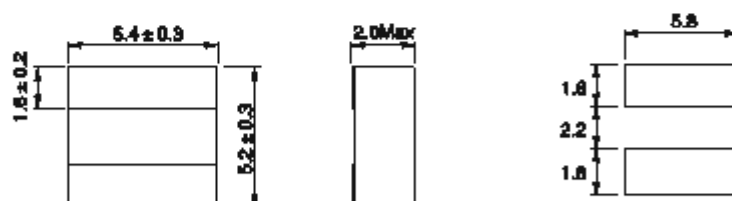


ELECTRICAL CHARACTERISTICS:

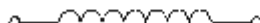
Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM5020C-R15M	0.15	28.4	27.0	1.8	2.1
LPM5020C-R33M	0.33	24.4	18.8	2.7	3.2
LPM5020C-R47M	0.47	22.1	15.7	3.7	4.3
LPM5020C-R68M	0.68	17.6	14.0	5.3	6.1
LPM5020C-1R0M	1.0	15.0	11.4	7.5	8.7
LPM5020C-1R5M	1.5	12.8	8.9	11.4	13.2
LPM5020C-2R2M	2.2	10.7	7.6	16.3	18.6
LPM5020C-3R3M	3.3	9.4	6.5	23.4	27.0
LPM5020C-4R7M	4.7	7.8	5.3	36.0	41.5
LPM5020C-6R8M	6.8	4.8	4.5	55.0	63.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 50%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

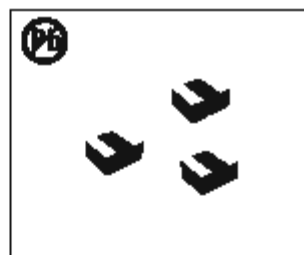
LPM5030C SERIES

FEATURES:

- High performance (fast) realized by Carbonyl Iron powder
- Low profile: 5.2mm x 5.4mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, D8Cs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

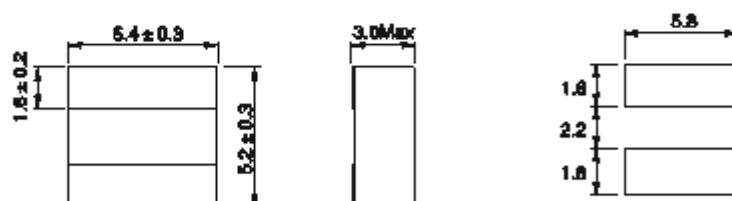


ELECTRICAL CHARACTERISTICS:

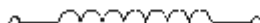
Part Number	Inductance L0(μH) ±20% @0A dc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM5030C-R15M	0.15	32.0	30.0	1.3	1.6
LPM5030C-R33M	0.33	30.8	24.5	1.8	2.2
LPM5030C-R47M	0.47	25.0	20.5	2.5	3.0
LPM5030C-R68M	0.68	21.2	17.5	3.3	4.0
LPM5030C-1R0M	1.0	17.8	14.0	4.8	5.8
LPM5030C-1R5M	1.5	15.4	12.2	6.6	7.9
LPM5030C-2R2M	2.2	12.9	9.4	9.2	10.6
LPM5030C-3R3M	3.3	10.0	8.4	13.3	14.9
LPM5030C-4R7M	4.7	8.5	6.7	21.8	24.5
LPM5030C-6R8M	6.8	7.3	5.5	26.6	32.1
LPM5030C-100M	10.0	5.7	4.5	43.0	48.4

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 50%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM6030C SERIES



FEATURES:

- High performance (lead) realized by Carbonyl Iron powder
- Low profile: 6.0mm x 6.4mm x 3.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

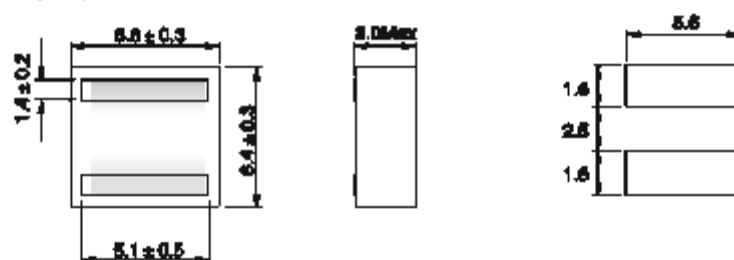
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LED displays, HDDs, DVDs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchange
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0.4dc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM6030C-R16M	0.15	85.0	43.0	1.0	1.2
LPM6030C-R22M	0.22	82.0	39.0	1.2	1.5
LPM6030C-R36M	0.36	29.0	29.0	2.0	2.4
LPM6030C-R47M	0.47	26.0	26.5	2.2	2.7
LPM6030C-R68M	0.68	22.5	22.0	2.9	3.5
LPM6030C-1R0M	1.0	18.1	17.7	4.2	4.8
LPM6030C-1R5M	1.5	15.0	14.5	6.2	7.3
LPM6030C-2R2M	2.2	12.0	12.2	9.7	10.9
LPM6030C-3R3M	3.3	10.5	10.4	13.1	15.4
LPM6030C-4R7M	4.7	10.0	8.6	17.5	21.0
LPM6030C-6R8M	6.8	8.2	7.3	25.1	29.5
LPM6030C-100M	10.0	7.0	6.2	39.0	44.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 80%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM6060C SERIES



FEATURES:

- High performance (test) realized by Caribonyl Iron powder
- Low profile: 6.6mm x 6.4mm x 6.0mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

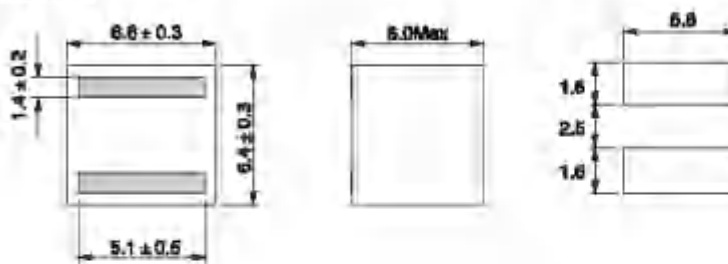
- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ).	DCR Max. (mΩ).
LPM6060C-R22M	0.22	28.0	38.0	1.1	1.3
LPM6060C-R47M	0.47	26.0	29.5	1.5	1.8
LPM6060C-R68M	0.68	22.7	25.5	2.0	2.3
LPM6060C-1R0M	1.0	22.0	23.0	2.5	2.9
LPM6060C-1R5M	1.5	20.2	18.3	3.3	3.8
LPM6060C-2R2M	2.2	17.2	18.0	4.3	4.8
LPM6060C-3R3M	3.3	16.8	13.4	5.9	6.5
LPM6060C-4R7M	4.7	13.5	10.2	9.1	10.1
LPM6060C-6R8M	6.8	11.5	8.9	12.7	14.0
LPM6060C-100M	10.0	9.1	7.3	18.5	20.4
LPM6060C-150M	15.0	7.4	5.8	28.2	31.1

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)



Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient.
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 50%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions.Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.

SMD MOLDED POWER INDUCTORS

LPM10100C SERIES

FEATURES:

- High performance (Isat) realized by Carbonyl Iron powder
- Low profile: 11.3mm x 10mm x 10mm
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard
- RoHS compliant

COMMON APPLICATIONS:

- DC/DC converter for CPU in Notebook PC
- Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..
- Thin type on-board power supply module for exchanger
- VRM for server

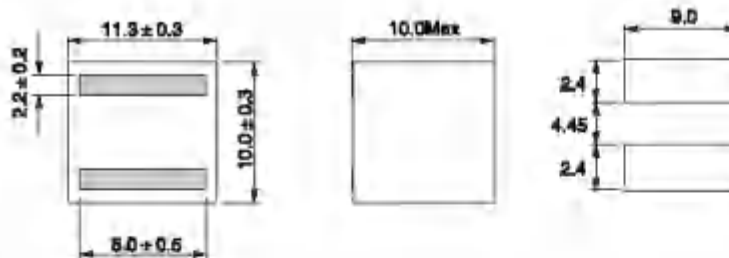


ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) ±20% @0A _{dc}	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (mΩ)	DCR Max. (mΩ)
LPM10100C-1R0M	1.0	43.5	55.0	1.00	1.10
LPM10100C-1R5M	1.5	40.5	35.5	1.60	1.75
LPM10100C-2R2M	2.2	32.0	34.0	2.55	2.80
LPM10100C-3R3M	3.3	25.0	27.4	3.70	4.10
LPM10100C-4R7M	4.7	24.0	25.4	5.20	5.70
LPM10100C-6R8M	6.8	18.5	21.8	8.1	8.9
LPM10100C-100M	10.0	15.5	17.5	13.4	14.8
LPM10100C-150M	15.0	13.8	15.5	18.9	18.8

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

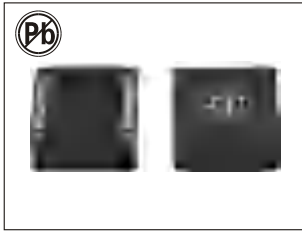


Winding



Notes

- Test Frequency : 100KHz / 1V
- All test data is referenced to 25°C ambient
- Heat Rated Current (Irms) DC current (A) that will cause an approximate ΔT of 40°C
- Saturation Current (Isat) DC current (A) that will cause L0 to drop approximately 30%
- Operating Temperature Range -55°C to +125°C
- The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all effect the part temperature. Part temperature should be verified in the end application.
- The rated current as listed is either the saturation current or the heating current depending on which value is lower.



SMD MOLDED POWER INDUCTORS

LPM 1707 SERIES

FEATURES:

- Lowest height in this package footprint.
- Shielded construction.
- Lowest DCR/uH, in this package size.
- Handles high transient current spikes without saturation.
- Ultra low buzz noise, due to composite construction.

OPTIONS:

- Tape & Reel is Standard (Qty:1000pcs.)
- Bulk packaging Available for Smaller Quantities

COMMON APPLICATIONS:

- Excellent for power line DC-DC conversion
- Applications used in power switching
- Personal computers and other handheld electronic equipment.

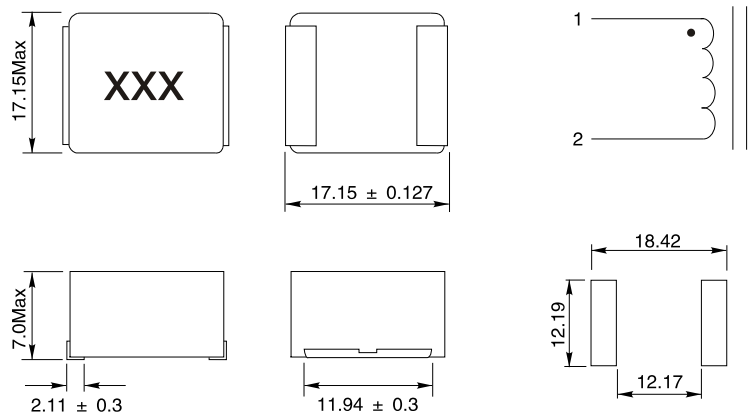
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μ H) $\pm$ 20% @0Adc	Heat rating current DC Amps IDC(A)	Saturation current DC Amps Isat(A)	DCR Typ. (m Ω)	DCR Max. (m Ω).
LPM1707-R22M	0.22	80	129	0.63	0.75
LPM1707-R33M	0.33	65	126	0.71	0.82
LPM1707-R47M	0.47	62	123	0.90	1.03
LPM1707-R56M	0.56	56	88	0.91	1.05
LPM1707-R82M	0.82	50	73	1.17	1.29
LPM1707-1R0M	1.0	48	73	1.28	1.38
LPM1707-1R5M	1.5	42	65	1.78	1.88
LPM1707-1R8M	1.8	38	65	1.96	2.10
LPM1707-2R2M	2.2	35	62	2.40	2.53
LPM1707-3R3M	3.3	28	54	3.68	3.88
LPM1707-4R7M	4.7	25	41	4.84	5.11
LPM1707-5R6M	5.6	21	40	6.68	7.05
LPM1707-6R8M	6.8	19	32	8.37	8.83
LPM1707-8R2M	8.2	18	25	10.10	10.66
LPM1707-100M	10.0	16.5	25	11.6	12.0
LPM1707-150M	15.0	12.5	25	18.8	19.9
LPM1707-220M	22.0	11	23	25.1	26.5

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

- Test Frequency : 100KHz / 0.25Vdc @ 25°C.
- Testing Instrument : L:HP4284A, CH11025, CH3302, CH1320, CH1320S LCR METER/Rdc:CH16502, Agilent33420A MICRO OHMMETER.
- Heat Rated Current (Irms) will cause the coil temperature rise approximately, $\Delta T=40^{\circ}\text{C}$ without core loss.
- Saturation Current (Isat) will cause L0 to drop approximately 20%
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- Operating Temperature & Storage Temperature: $-55^{\circ}\text{C} - +125^{\circ}\text{C}$.

Dimensions(mm)



Note:All specifications subject to change without notice.