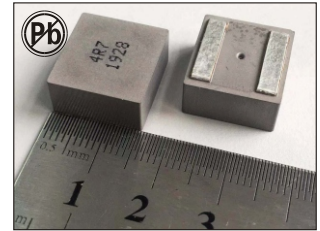


SMD MOLDED POWER INDUCTORS

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

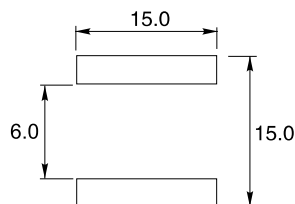
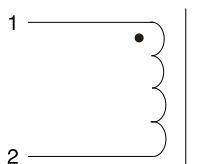
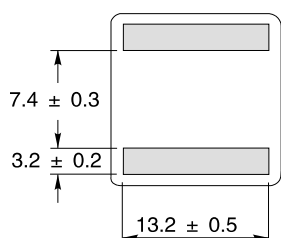
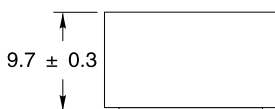
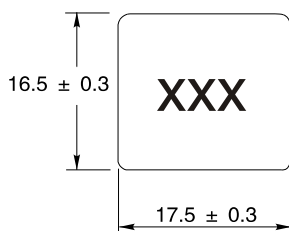


ELECTRICAL CHARACTERISTICS:

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)



Recommended land pattern

- 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°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 - $+165^{\circ}\text{C}$.

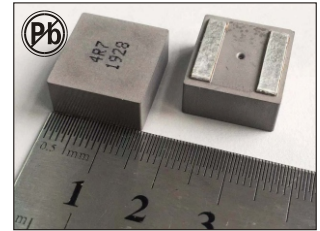
Note:All specifications subject to change without notice.

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

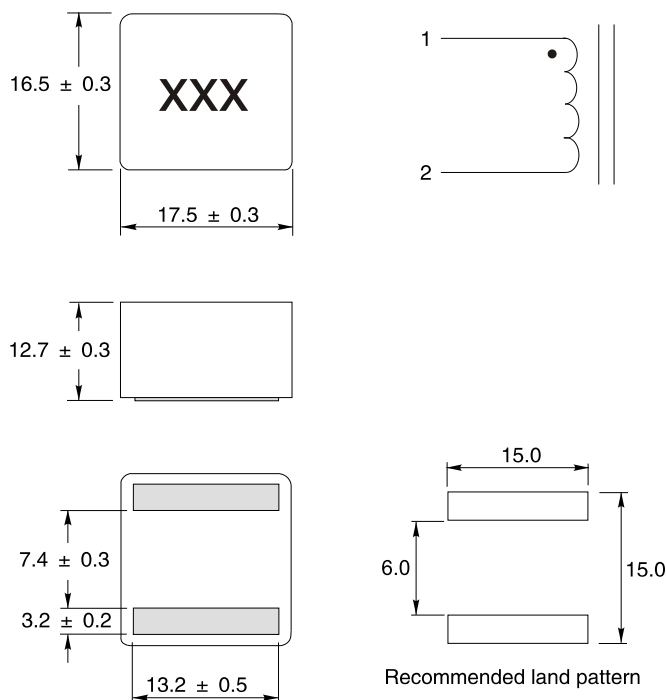


ELECTRICAL CHARACTERISTICS:

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°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.