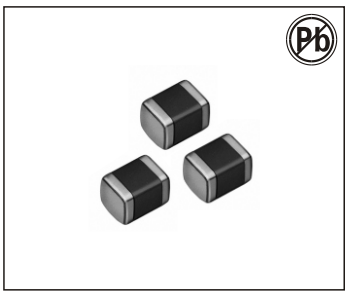
SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-0805 SERIES



FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment

ELECTRICAL CHARACTERISTICS:

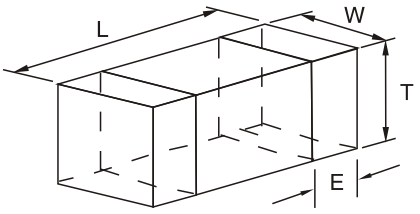
Part Number	L(uH) ±10%	Q Min	L.Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805-47NK	0.047	25	50	320	0.15	300
AIML0805-56NK	0.056	25	50	320	0.15	300
AIML0805-68NK	0.068	25	50	280	0.20	300
AIML0805-82NK	0.082	25	50	280	0.20	300
AIML0805-R10K	0.10	20	25	235	0.20	250
AIML0805-R12K	0.12	20	25	220	0.25	250
AIML0805-R15K	0.15	20	25	200	0.25	250
AIML0805-R18K	0.18	20	25	185	0.30	250
AIML0805-R22K	0.22	20	25	170	0.30	250
AIML0805-R27K	0.27	20	25	150	0.40	250
AIML0805-R33K	0.33	20	25	145	0.40	250
AIML0805-R39K	0.39	25	25	135	0.50	200
AIML0805-R47K	0.47	25	25	125	0.50	200
AIML0805-R56K	0.56	25	25	115	0.60	150
AIML0805-R68K	0.68	25	25	105	0.65	150
AIML0805-R82K	0.82	25	25	100	0.70	150
AIML0805-1R0K	1.0	35	10	75	0.40	50
AIML0805-1R2K	1.2	35	10	65	0.40	50
AIML0805-1R5K	1.5	35	10	60	0.40	50
AIML0805-1R8K	1.8	35	10	55	0.40	50
AIML0805-2R2K	2.2	35	10	50	0.60	50
AIML0805-2R7K	2.7	35	10	45	0.60	50
AIML0805-3R3K	3.3	35	10	41	0.60	50
AIML0805-3R9K	3.9	35	10	38	0.80	50
AIML0805-4R7K	4.7	35	10	35	0.90	30
AIML0805-5R6K	5.6	30	4	32	1.00	15
AIML0805-6R8K	6.8	30	4	29	1.05	15
AIML0805-8R2K	8.2	30	4	26	1.05	15
AIML0805-100K	10	30	2	24	1.15	15
AIML0805-120K	12	30	2	22	1.15	15
AIML0805-150K	15	25	1	19	1.15	5
AIML0805-180K	18	25	1	18	1.20	5
AIML0805-220K	22	25	1	16	1.20	5
AIML0805-270K	27	25	1	16	1.50	5
AIML0805-330M	33 ± 20%	25	1	16	1.50	5
AIML0805A-390M	39 ± 20%	25	1	16	1.50	5
AIML0805A-470M	47 ± 20%	25	1	15	1.70	5

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
  Inductance & Q-HP4195A+HP41951
  DCR:VOAC-7412
  SRF:HP8753C
- Solderability:75% of the terminal electrode shall be covered
  Preheat:@ 180℃ ± 5℃ for 2-3 minutes
  Solder temperature:230℃ for 4 seconds ± 1 second Flux:Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC:The DC current at which tither the initial L value is decreased by 5% with the application of DC bias or the value of current at which the temperature of the element is increased by 20℃
- Operating Temperature: -25℃ to +85℃
- Storage Temperature: -25℃ to +85℃

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	2.0 ± 0.2	
W	1.2 ± 0.2	
T	(0805) 0.9 ± 0.2	(0805A) 1.2 ± 0.2
E	0.5 ± 0.3	