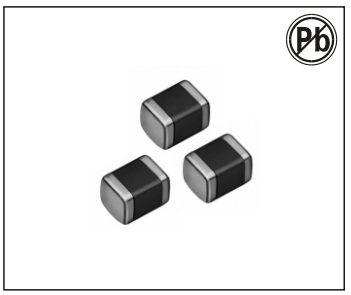
SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

AIML-0603 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:

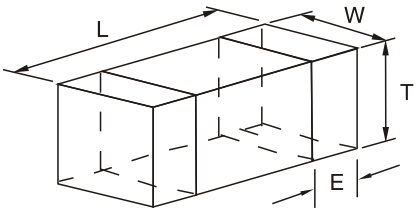
Part Number	L(uH) ±10%	Q Min	L.Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603-47NK	0.047	15	50	260	0.20	50
AIML0603-56NK	0.056	15	50	260	0.20	50
AIML0603-68NK	0.068	15	50	250	0.20	50
AIML0603-82NK	0.082	15	50	245	0.20	50
AIML0603-R10K	0.10	20	25	240	0.25	50
AIML0603-R12K	0.12	20	25	205	0.30	50
AIML0603-R15K	0.15	20	25	180	0.30	50
AIML0603-R18K	0.18	20	25	165	0.30	50
AIML0603-R22K	0.22	20	25	150	0.40	50
AIML0603-R27K	0.27	20	25	136	0.45	50
AIML0603-R33K	0.33	20	25	125	0.50	50
AIML0603-R39K	0.39	20	25	110	0.60	50
AIML0603-R47K	0.47	20	25	105	0.70	50
AIML0603-R56K	0.56	20	25	95	0.70	50
AIML0603-R68K	0.68	20	25	90	0.90	50
AIML0603-R82K	0.82	20	25	85	1.00	50
AIML0603-1R0K	1.0	25	10	75	0.50	25
AIML0603-1R2K	1.2	25	10	65	0.55	25
AIML0603-1R5K	1.5	25	10	60	0.70	25
AIML0603-1R8K	1.8	25	10	55	0.75	25
AIML0603-2R2K	2.2	25	10	50	0.80	25
AIML0603-2R7K	2.7	25	10	45	0.90	15
AIML0603-3R3K	3.3	25	10	40	1.00	15
AIML0603-3R9K	3.9	25	10	35	1.30	15
AIML0603-4R7K	4.7	25	4	33	1.50	15
AIML0603-5R6K	5.6	12	4	22	1.55	5
AIML0603-6R8K	6.8	12	4	20	1.55	5
AIML0603-8R2K	8.2	12	4	18	1.65	5
AIML0603-100K	10	20	2	17	1.75	3
AIML0603-120K	12	20	2	15	1.85	3
AIML0603-150M	15 ± 20%	20	1	14	2.50	1
AIML0603-180M	18 ± 20%	20	1	13	2.70	1
AIML0603-220M	22 ± 20%	20	1	12	3.00	1

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	1.6 ± 0.2
W	0.8 ± 0.2
T	0.8 ± 0.2
E	0.3 ± 0.2