

SURFACE-MOUNT MULTI-LAYER HIGH CURRENT INDUCTORS AIML-0603H SERIES



FEATURES:

- Compact size and light weight
- Excellent solderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield
- Low RDC and High IDC

COMMON APPLICATIONS:

- Cellular platform DC-DC converter circuit
- Portable AV equipment (digital camera, DVD Type)
- Cellular platform (handset Type)
- Memex (computer Type)

ELECTRICAL CHARACTERISTICS:

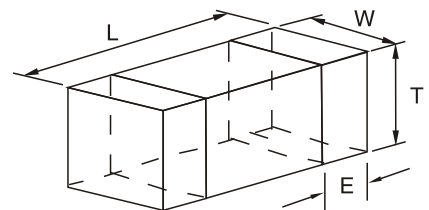
Part Number	L(μH) ± 20%	L Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0603H-47NM	0.047	1	260	0.12	150
AIML0603H-56NM	0.056	1	260	0.12	150
AIML0603H-68NM	0.068	1	250	0.12	150
AIML0603H-82NM	0.082	1	245	0.12	150
AIML0603H-R10M	0.10	1	240	0.15	150
AIML0603H-R12M	0.12	1	205	0.20	150
AIML0603H-R15M	0.15	1	180	0.20	150
AIML0603H-R18M	0.18	1	165	0.20	150
AIML0603H-R22M	0.22	1	150	0.25	150
AIML0603H-R27M	0.27	1	136	0.30	100
AIML0603H-R33M	0.33	1	125	0.30	100
AIML0603H-R39M	0.39	1	110	0.35	100
AIML0603H-R47M	0.47	1	105	0.45	100
AIML0603H-R56M	0.56	1	95	0.45	100
AIML0603H-R68M	0.68	1	90	0.55	100
AIML0603H-R82M	0.82	1	85	0.60	100
AIML0603H-1R0M	1.0	1	75	0.30	150
AIML0603H-1R2M	1.2	1	65	0.30	150
AIML0603H-1R5M	1.5	1	60	0.35	120
AIML0603H-1R8M	1.8	1	55	0.40	120
AIML0603H-2R2M	2.2	1	50	0.50	120
AIML0603H-2R7M	2.7	1	45	0.60	100
AIML0603H-3R3M	3.3	1	40	0.65	100
AIML0603H-3R9M	3.9	1	35	0.70	80
AIML0603H-4R7M	4.7	1	33	0.75	80
AIML0603H-5R6M	5.6	1	22	0.90	60
AIML0603H-6R8M	6.8	1	20	0.90	60
AIML0603H-8R2M	8.2	1	18	1.05	60
AIML0603H-100M	10	1	17	1.15	60
AIML0603H-120M	12	1	15	1.25	60

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance & Q-HP4195A+HP41951
DCR: VOAC-7412
SRF: HP8753C
- Solderability: 75% of the terminal electrode shall be covered
Preheat: @ 180°C ± 5°C for 2-3 minutes
Solder temperature: 230°C for 4 seconds ± 1 second
Flux: Emersion into methanol solution with Colophony for 3 to 5 seconds.
- IDC: The DC current at which 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°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions: (mm)



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