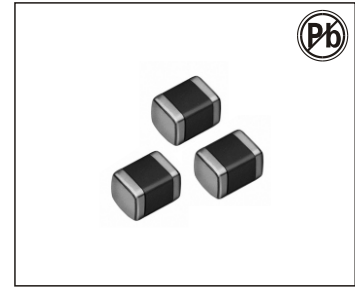


# SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

## AIML-0402 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

### COMMON APPLICATIONS:

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

### ELECTRICAL CHARACTERISTICS:

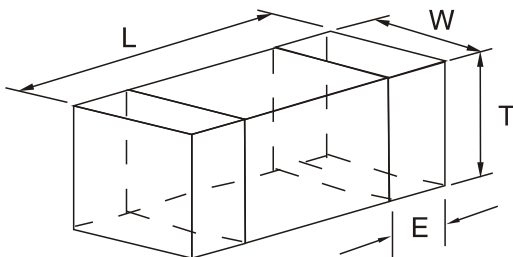
Part Number	L( $\mu$ H) $\pm 10\%$	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR ( $\Omega$ ) Max	IDC (mA) Max
AIML0402-47NK	0.047	10	50	220	0.45	25
AIML0402-56NK	0.056	10	50	210	0.45	25
AIML0402-68NK	0.068	10	50	210	0.45	25
AIML0402-82NK	0.082	10	50	200	0.45	25
AIML0402-R10K	0.1	15	25	200	0.7	25
AIML0402-R12K	0.12	15	25	165	0.7	25
AIML0402-R15K	0.15	15	25	140	0.8	25
AIML0402-R18K	0.18	15	25	120	0.8	25
AIML0402-R22K	0.22	15	25	110	1.0	25
AIML0402-R27K	0.27	15	25	95	1.2	25
AIML0402-R33K	0.33	15	25	85	1.2	25
AIML0402-R39K	0.39	15	10	70	0.6	20
AIML0402-R47K	0.47	15	10	68	0.7	20
AIML0402-R56K	0.56	15	10	55	0.8	20
AIML0402-R68K	0.68	15	10	50	0.9	20
AIML0402-R82K	0.82	15	10	45	0.9	18
AIML0402-1R0K	1.0	20	10	40	0.9	15
AIML0402-1R2K	1.2	20	10	35	1.2	15

### 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  $\pm$  5°C for 2-3 minutes  
Solder temperature:230°C for 4 seconds  $\pm$  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°C
- Operating Temperature: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

### PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	1.0 $\pm$ 0.15
W	0.5 $\pm$ 0.15
T	0.5 $\pm$ 0.15
E	0.25 $\pm$ 0.1