

# SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

## AIML-0603C SERIES

### FEATURES:

- Multilayer ceramic structure
- Closed magnetic circuit
- Avoids crosstalk
- Excellent solderability
- High reliability
- Counter measures for complying with FCC,VDE,CSA,VCCI and CE

### OPTIONS:

- Packaging:Tape & Reel is standard (Qty:4000pcs)  
Bulk packaging available for smaller quantities
- Tolerance:20% and 10% is standard, tighter tolerances available

### COMMON APPLICATIONS:

- VCRs
- Mobil Radios
- Cordless Telephones
- Modems
- Global Positioning Systems
- Wireless Communications Equipment
- Network Systems
- Computer Products

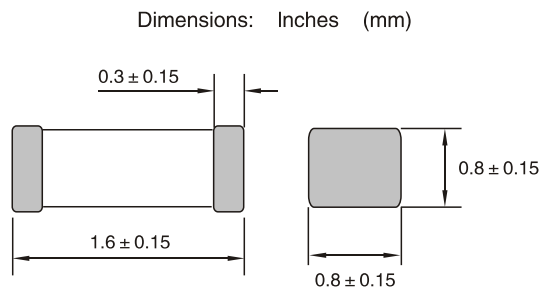
### ELECTRICAL CHARACTERISTICS:

Part Number	L (nH)	Q Min	SRF Mhz Min	DCR $\Omega$ Max	IDC Max mA	Test Freq MHz
AIML-0603C-1N2	1.2	40	6000	0.10	500	100
AIML-0603C-1N5	1.5	38	6000	0.10	500	100
AIML-0603C-1N8	1.8	36	6000	0.12	500	100
AIML-0603C-2N2	2.2	34	6000	0.16	500	100
AIML-0603C-2N7	2.7	32	6000	0.20	500	100
AIML-0603C-3N3	3.3	30	5700	0.22	500	100
AIML-0603C-3N9	3.9	32	5600	0.25	500	100
AIML-0603C-4N7	4.7	32	4800	0.28	500	100
AIML-0603C-5N6	5.6	32	4350	0.29	500	100
AIML-0603C-6N8	6.8	32	3750	0.30	500	100
AIML-0603C-8N2	8.2	28	3300	0.33	300	100
AIML-0603C-10N	10	31	2850	0.35	300	100
AIML-0603C-12N	12	30	2700	0.40	300	100
AIML-0603C-15N	15	26	2400	0.45	300	100
AIML-0603C-18N	18	25	2050	0.50	300	100
AIML-0603C-22N	22	30	1850	0.55	300	100
AIML-0603C-27N	27	26	1750	0.60	300	100
AIML-0603C-33N	33	24	1500	0.65	300	100
AIML-0603C-39N	39	20	1350	0.70	300	100
AIML-0603C-47N	47	18	1200	0.90	300	100
AIML-0603C-56N	56	14	1100	1.00	300	100
AIML-0603C-68N	68	18	1000	1.50	300	100
AIML-0603C-82N	82	18	900	2.00	300	100
AIML-0603C-R10	100	3	830	2.50	300	100

### TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)  
Inductance & Q-HP4195A+HP41951  
DCR:VOAC-7412  
SRF:HP8753C
- Solderability:90% of the terminal  
Electrode shall be covered  
Preheat:@ 260°C  $\pm$  5°C for 160 seconds  
Solder:H63AA Eutectic Solder  
Flux:Rosin,Dip for 5 seconds  $\pm$  1 second
- Thermal Shock: Inductance shall be  
Within  $\pm$  5% of initial value  
and Q shall be within  $\pm$  30% of initial value  
When temperature is -40°C and +85°C for 30  
Min.for each 100 cycles
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -40°C to +85°C

### PHYSICAL CHARACTERISTICS:



Note:All specifications subject to change without notice.

Note:1. K=  $\pm$  10%,M=  $\pm$  20%,N=  $\pm$  30%