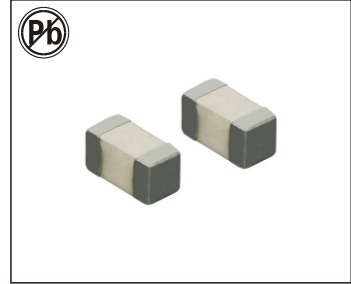


# SURFACE-MOUNT MULTI-LAYER CERAMIC CHIP INDUCTORS

## AIML-0805C SERIES



### FEATURES:

- Multilayer monolithic construction yields high reliability
- High self-resonant frequency
- Excellent solderability and heat resistance for either flow or reflow soldering

### COMMON APPLICATIONS:

- High frequency circuits of telecommunication.
- Bluetooth
- Mobile phones such as GSM, CDMA, PDC, etc.
- Other High frequency circuits in general

### ELECTRICAL CHARACTERISTICS:

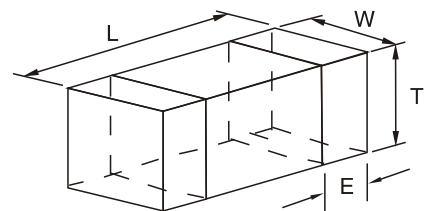
Part Number	L(nH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML0805C-1N5S	1.5 ± 0.3	8	100	6000	0.10	600
AIML0805C-1N8S	1.8 ± 0.3	8	100	6000	0.10	600
AIML0805C-2N2S	2.2 ± 0.3	8	100	6000	0.10	600
AIML0805C-2N7S	2.7 ± 0.3	8	100	6000	0.10	600
AIML0805C-3N3S	3.3 ± 0.3	8	100	6000	0.13	600
AIML0805C-3N9S	3.9 ± 0.3	8	100	5400	0.15	600
AIML0805C-4N7S	4.7 ± 0.3	8	100	4500	0.20	400
AIML0805C-5N6S	5.6 ± 0.3	8	100	4000	0.23	400
AIML0805C-6N8J	6.8 ± 5%	8	100	3650	0.25	400
AIML0805C-8N2J	8.2 ± 5%	8	100	3000	0.28	400
AIML0805C-10NJ	10 ± 5%	8	100	2500	0.30	300
AIML0805C-12NJ	12 ± 5%	8	100	2450	0.35	300
AIML0805C-15NJ	15 ± 5%	8	100	2000	0.40	300
AIML0805C-18NJ	18 ± 5%	8	100	1750	0.45	300
AIML0805C-22NJ	22 ± 5%	8	100	1700	0.50	300
AIML0805C-27NJ	27 ± 5%	8	100	1550	0.55	300
AIML0805C-33NJ	33 ± 5%	8	100	1350	0.60	300
AIML0805C-39NJ	39 ± 5%	8	100	1300	0.70	300
AIML0805C-47NJ	47 ± 5%	8	100	1200	0.80	300
AIML0805C-56NJ	56 ± 5%	8	100	1150	0.80	300
AIML0805C-68NJ	68 ± 5%	8	100	1000	0.85	300
AIML0805C-82NJ	82 ± 5%	8	100	850	0.90	300
AIML0805C-R10J	100 ± 5%	8	100	600	1.00	300
AIML0805C-R12J	120 ± 5%	8	50	500	1.20	300
AIML0805C-R15K	150 ± 10%	8	50	500	1.50	300
AIML0805C-R18K	180 ± 10%	8	50	400	1.80	300
AIML0805C-R22K	220 ± 10%	8	50	350	1.80	300
AIML0805C-R27K	270 ± 10%	8	50	350	1.80	300
AIML0805C-R33K	330 ± 10%	8	50	300	2.00	300
AIML0805C-R39K	390 ± 10%	8	50	250	2.00	300
AIML0805C-R47K	470 ± 10%	8	50	200	2.00	300

### TECHNICAL INFORMATION:

- Testing:(Equivalent acceptable)  
Inductance & Q-HP4195A+HP41951  
DCR:VOAC-7412  
SRF:HP8720C
- Solderability:90% of the terminal  
Electrode shall be covered  
Preheat: @ 260°C ± 5°C for 160 seconds  
Solder:H63AA Eutectic Solder  
Flux:Rosin,Dip for 5 seconds ± 1 second
- Thermal Shock: Inductance shall be  
Within ± 5% of initial value  
and Q shall be within ± 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:

Dimensions:(mm)



L	2.0 ± 0.2
W	1.2 ± 0.2
T	0.9 ± 0.2
E	0.5 ± 0.3