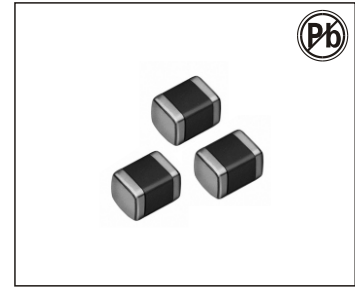


# SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

## AIML-1210 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:

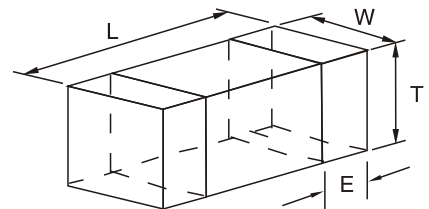
Part Number	L(μH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1210-1R0K	1.0	40	10	70	0.20	600
AIML1210-1R2K	1.2	40	10	70	0.20	600
AIML1210-1R5K	1.5	40	10	70	0.30	500
AIML1210-1R8K	1.8	40	10	70	0.30	500
AIML1210-2R2K	2.2	40	10	50	0.30	500
AIML1210-2R7K	2.7	40	10	50	0.30	500
AIML1210-3R3K	3.3	40	10	50	0.40	500
AIML1210-3R9K	3.9	40	10	30	0.40	500
AIML1210-4R7K	4.7	40	10	30	0.50	500
AIML1210-5R6K	5.6	35	4	30	0.60	450
AIML1210-6R8K	6.8	35	4	20	0.60	450
AIML1210-8R2K	8.2	35	4	20	0.70	400
AIML1210-100K	10	35	2	20	0.70	400
AIML1210-120K	12	35	2	20	0.70	400
AIML1210-150K	15	35	1	20	0.70	300
AIML1210-180K	18	35	1	10	0.70	300
AIML1210-220K	22	35	1	10	0.75	250
AIML1210-270K	27	35	1	10	0.75	250
AIML1210-330K	33	35	1	10	0.80	250
AIML1210-390K	39	35	1	10	0.80	250
AIML1210-470K	47	35	1	10	1.00	200
AIML1210-560M	56 ± 20%	35	1	5	1.20	200
AIML1210-680M	68 ± 20%	35	1	5	1.30	150
AIML1210-820M	82 ± 20%	35	1	5	1.50	150
AIML1210-101M	100 ± 20%	35	1	5	1.50	150
AIML1210-121M	120 ± 20%	35	1	5	1.80	150

### 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 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	3.2 ± 0.2
W	2.5 ± 0.2
T	1.3 ± 0.2
E	0.5 ± 0.3