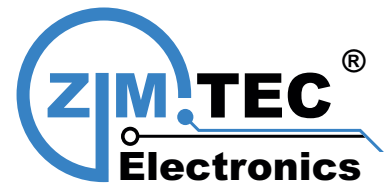


# AIML-1210 SERIES

## SURFACE-MOUNT MULTI-LAYER CHIP INDUCTORS

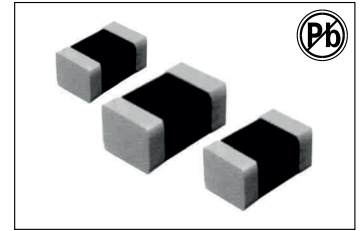


### FEATURES:

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

### COMMON APPLICATIONS:

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



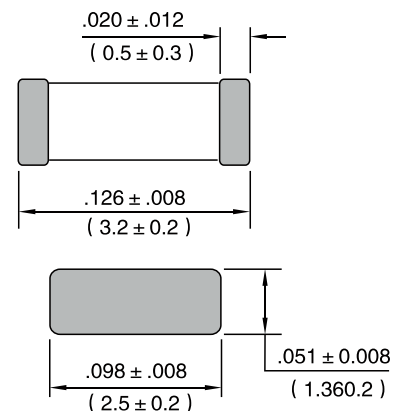
### ELECTRICAL CHARACTERISTICS:

Part Number	L ( $\mu$ H)	Tol %	Q Min	SRF MHz Min	DCR $\Omega$ Max	IDC Max mA	Test Freq MHz
AIML-1210-1R0K	1.0	$\pm 10$	50	320	0.15	600	10
AIML-1210-1R2K	1.2	$\pm 10$	50	280	0.25	600	10
AIML-1210-1R5K	1.5	$\pm 10$	50	235	0.25	500	10
AIML-1210-1R8K	1.8	$\pm 10$	50	220	0.30	500	10
AIML-1210-2R2K	2.2	$\pm 10$	50	200	0.30	500	10
AIML-1210-2R7K	2.7	$\pm 10$	50	185	0.40	500	10
AIML-1210-3R3K	3.3	$\pm 10$	50	170	0.40	500	10
AIML-1210-3R9K	3.9	$\pm 10$	50	150	0.50	500	10
AIML-1210-4R7K	4.7	$\pm 10$	50	145	0.60	500	10
AIML-1210-5R6K	5.6	$\pm 10$	50	135	0.50	450	4
AIML-1210-6R8K	6.8	$\pm 10$	50	125	0.60	450	4
AIML-1210-8R2K	8.2	$\pm 10$	50	115	0.70	400	4
AIML-1210-100K	10	$\pm 10$	50	105	0.80	400	2
AIML-1210-120K	12	$\pm 10$	50	100	0.90	400	2
AIML-1210-150K	15	$\pm 10$	50	75	1.00	300	1
AIML-1210-180K	18	$\pm 10$	50	65	1.10	300	1
AIML-1210-220K	22	$\pm 10$	50	60	1.10	250	1
AIML-1210-270K	27	$\pm 10$	50	55	1.10	250	1
AIML-1210-330K	33	$\pm 10$	50	50	1.20	250	1
AIML-1210-390K	39	$\pm 10$	50	45	1.20	250	1
AIML-1210-470K	47	$\pm 10$	50	41	1.25	200	1
AIML-1210-560K	56	$\pm 10$	50	38	1.3	200	1
AIML-1210-680K	68	$\pm 10$	50	35	1.4	150	1
AIML-1210-820K	82	$\pm 10$	50	32	1.5	150	1
AIML-1210-101K	100	$\pm 10$	50	29	1.6	150	1
AIML-1210-121K	120	$\pm 10$	50	26	1.7	150	1
AIML-1210-151K	150	$\pm 10$	50	24	1.75	100	1
AIML-1210-181K	180	$\pm 10$	50	22	1.8	100	1
AIML-1210-221K	220	$\pm 10$	50	19	1.9	50	1
AIML-1210-271K	270	$\pm 10$	50	18	2.0	50	1
AIML-1210-331K	330	$\pm 10$	50	16	2.1	50	1

### TECHNICAL INFORMATION:

- Testing: (Equivalents acceptable)  
Impedance & 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 10 seconds  $\pm 1$  second
- Thermal Shock: Impedance 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:



Dimensions: Inches (mm)

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