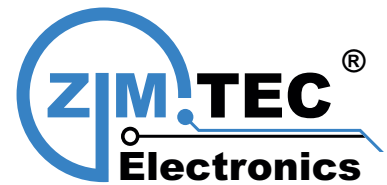


# AIML-0805 SERIES

## SURFACE-MOUNT MULTI-LAYER CHIP INDUCTORS

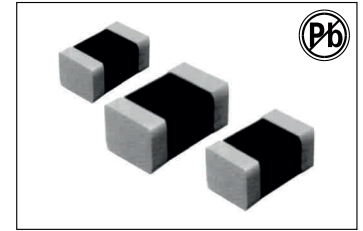


### FEATURES:

- 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



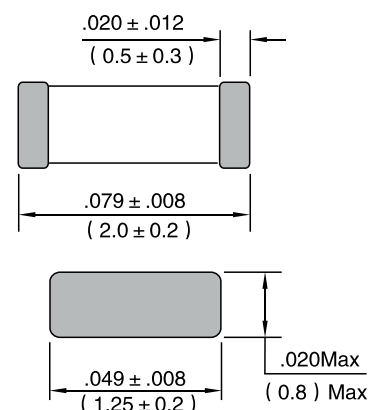
### ELECTRICAL CHARACTERISTICS:

### TECHNICAL INFORMATION:

Part Number	L ( $\mu$ H)	Tol %	Q Min	SRF MHz Min	DCR $\Omega$ Max	IDC Max mA	Test Freq MHz
AIML-0805-47NM	47nH	$\pm 20$	25	320	0.15	300	50
AIML-0805-56NM	56nH	$\pm 20$	25	320	0.20	300	50
AIML-0805-68NM	68nH	$\pm 20$	25	280	0.25	300	50
AIML-0805-82NM	82nH	$\pm 20$	25	280	0.25	300	50
AIML-0805-R10K	.10	$\pm 10$	25	235	0.25	250	25
AIML-0805-R12K	.12	$\pm 10$	25	220	0.30	250	25
AIML-0805-R15K	.15	$\pm 10$	25	200	0.30	250	25
AIML-0805-R18K	.18	$\pm 10$	25	185	0.40	250	25
AIML-0805-R22K	.22	$\pm 10$	25	170	0.40	250	25
AIML-0805-R27K	.27	$\pm 10$	25	150	0.50	250	25
AIML-0805-R33K	.33	$\pm 10$	25	145	0.50	250	25
AIML-0805-R39K	.39	$\pm 10$	30	135	0.60	200	25
AIML-0805-R47K	.47	$\pm 10$	30	125	0.60	200	25
AIML-0805-R56K	.56	$\pm 10$	30	115	0.70	150	25
AIML-0805-R68K	.68	$\pm 10$	30	105	0.80	150	25
AIML-0805-R82K	.82	$\pm 10$	30	100	0.90	150	25
AIML-0805-1R0K	1.0	$\pm 10$	45	75	0.40	100	10
AIML-0805-1R2K	1.2	$\pm 10$	45	65	0.50	100	10
AIML-0805-1R5K	1.5	$\pm 10$	45	60	0.50	50	10
AIML-0805-1R8K	1.8	$\pm 10$	45	55	0.50	50	10
AIML-0805-2R2K	2.2	$\pm 10$	45	50	0.60	50	10
AIML-0805-2R7K	2.7	$\pm 10$	45	45	0.60	50	10
AIML-0805-3R3K	3.3	$\pm 10$	45	41	0.70	50	10
AIML-0805-3R9K	3.9	$\pm 10$	45	38	0.80	50	10
AIML-0805-4R7K	4.7	$\pm 10$	45	35	0.90	25	10
AIML-0805-5R6K	5.6	$\pm 10$	50	32	0.70	25	4
AIML-0805-6R8K	6.8	$\pm 10$	50	29	0.80	25	4
AIML-0805-8R2K	8.2	$\pm 10$	50	26	0.90	25	4
AIML-0805-100K	10	$\pm 10$	50	24	1.00	25	2
AIML-0805-120K	12	$\pm 10$	50	22	1.05	15	2
AIML-0805-150K	15	$\pm 10$	30	19	0.70	5	1
AIML-0805-180K	18	$\pm 10$	30	18	0.70	5	1
AIML-0805-220K	22	$\pm 10$	30	16	0.90	5	1
AIML-0805-270K	27	$\pm 10$	30	16	1.20	5	1
AIML-0805-330K	33	$\pm 10$	30	16	1.40	5	1
AIML-0805-390K	39	$\pm 10$	35	16	1.50	5	1
AIML-0805-470K	47	$\pm 10$	35	15	1.60	5	1
AIML-0805-560K	56	$\pm 10$	35	15	1.80	5	1
AIML-0805-680K	68	$\pm 10$	25	15	2.0	5	1
AIML-0805-820K	82	$\pm 10$	25	11	2.5	5	1

- 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 5 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)

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

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