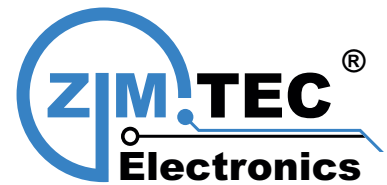


# AIML-0603 SERIES

## SURFACE-MOUNT MULTI-LAYER CHIP INDUCTORS

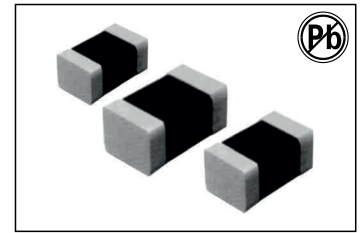


### FEATURES:

- Multilayer ceramic 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:

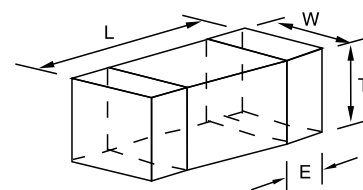
Part Number	L (μH)	Tol %	Q Min	SRF MHz Min	DCR Ω Max	IDC Max mA	Test Freq MHz
AIML-0603-47NM	47nH	±20	15	260	0.3	50	50
AIML-0603-47NM	56nH	±20	15	260	0.3	50	50
AIML-0603-68NM	68nH	±20	15	250	0.3	50	50
AIML-0603-82NM	82nH	±20	15	245	0.3	50	50
AIML-0603-R10K	.10	±10	20	240	0.5	50	25
AIML-0603-R12K	.12	±10	20	205	0.5	50	25
AIML-0603-R15K	.15	±10	20	180	0.6	50	25
AIML-0603-R18K	.18	±10	20	165	0.6	50	25
AIML-0603-R22K	.22	±10	20	150	0.8	50	25
AIML-0603-R27K	.27	±10	20	136	0.8	50	25
AIML-0603-R33K	.33	±10	20	125	0.85	35	25
AIML-0603-R39K	.39	±10	20	110	1.00	35	25
AIML-0603-R47K	.47	±10	20	105	1.35	35	25
AIML-0603-R56K	.56	±10	20	95	1.55	35	25
AIML-0603-R68K	.68	±10	20	90	1.70	35	25
AIML-0603-R82K	.82	±10	20	85	2.10	35	25
AIML-0603-1R0K	1.0	±10	35	75	0.60	25	10
AIML-0603-1R2K	1.2	±10	35	65	0.80	25	10
AIML-0603-1R5K	1.5	±10	35	60	0.80	25	10
AIML-0603-1R8K	1.8	±10	35	55	0.95	25	10
AIML-0603-2R2K	2.2	±10	35	50	1.15	25	10
AIML-0603-2R7K	2.7	±10	35	45	1.35	15	10
AIML-0603-3R3K	3.3	±10	35	40	1.55	15	10
AIML-0603-3R9K	3.9	±10	35	35	1.70	15	10
AIML-0603-4R7K	4.7	±10	35	33	2.10	15	10
AIML-0603-5R6K	5.6	±10	35	22	1.55	5	4
AIML-0603-6R8K	6.8	±10	35	20	1.70	5	4
AIML-0603-8R2K	8.2	±10	35	18	2.10	5	4
AIML-0603-100K	10	±10	30	17	2.15	3	2
AIML-0603-120K	12	±10	30	15	2.35	3	2
AIML-0603-150K	15	±10	20	14	1.70	1	1
AIML-0603-180K	18	±10	20	13	1.85	1	1
AIML-0603-220K	22	±10	20	11	2.10	1	1
AIML-0603-270K	27	±10	20	10	2.75	1	1
AIML-0603-330K	33	±10	20	9	2.95	1	1

Note: 1. K= ± 10%, M= ± 20%, N= ± 30%

### TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)  
Impedance & 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: Emulsion into methanol seconds 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: -40 °C to +100°C

### PHYSICAL CHARACTERISTICS:



Dimensions: Inches (mm)

L	$\frac{0.063 \pm 0.006}{(1.6 \pm 0.15)}$
W	$\frac{0.031 \pm 0.006}{(0.8 \pm 0.15)}$
T	$\frac{0.031 \pm 0.006}{(0.8 \pm 0.15)}$
E	$\frac{0.012 \pm 0.008}{(0.3 \pm 0.2)}$

ZimTec Electronics GmbH

Franz-Mehring-Weg 2, 39606 Osterburg, Germany

E-mail : info@zimtec-electronics.de

Web : www.zimtec-electronics.de

Last Update : 01.Jun.2015