



AIML0402 SERIES

SMD Multilayer Ceramic Chip Inductor

FEATURES

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

OPTIONS

- Packaging: T&R is standard (Qty:4000pcs)
- Bulk packaging available for smaller quantities
- Tolerance:20% and 10% is standard, tighter tolerances available

APPLICATIONS

- Mobile Phone
- IoT
- Power Electronics
- Computer Networking
- GPS & Wireless RF Systems
- Computer Products
- Household Appliances

Part Number	L (nH)	Tol %	Q Min	SRF MHz Min	DCR Ohm Max	IDC Max mA	Test Freq MHz
AIML-0402-47NM	47nH	±20	10	220	0.045	25	50
AIML-0402-56NM	56nH	±20	10	210	0.045	25	50
AIML-0402-68NM	68nH	±20	10	210	0.045	25	50
AIML-0402-82NM	82nH	±20	10	200	0.045	25	50
AIML-0402-R10K	0.1	± 10	15	200	0.7	25	25
AIML-0402-R12K	0.12	± 10	15	165	0.7	25	25
AIML-0402-R15K	0.15	± 10	15	140	0.8	25	25
AIML-0402-R18K	0.18	± 10	15	120	0.8	25	25
AIML-0402-R22K	0.22	± 10	15	110	1	25	25
AIML-0402-R27K	0.27	± 10	15	95	1.2	25	25
AIML-0402-R33K	0.33	± 10	15	85	1.2	25	25
AIML-0402-R39K	0.39	± 10	15	70	1.3	20	25
AIML-0402-R47K	0.47	± 10	15	68	1.5	20	25
AIML-0402-R56K	0.56	± 10	15	55	2	20	25
AIML-0402-R68K	0.68	± 10	15	50	2.3	20	25
AIML-0402-R82K	0.82	± 10	15	45	3	18	25
AIML-0402-1R0K	1	± 10	20	40	1.2	25	10
AIML-0402-1R2K	1.2	± 10	20	35	1.2	25	10
AIML-0402-1R5K	1.5	± 10	20	30	1.3	20	10
AIML-0402-1R8K	1.8	± 10	20	30	1.4	20	10
AIML-0402-2R2K	2.2	± 10	20	28	1.7	20	10
AIML-0402-2R7K	2.7	± 10	20	22	1.9	20	10
AIML-0402-3R3K	3.3	± 10	20	20	2	20	10
AIML-0402-3R9K	3.9	± 10	20	18	2.2	20	10
AIML-0402-4R7K	4.7	± 10	20	15	2.5	18	10
AIML-0402-5R6K	5.6	± 10	20	13	2.2	18	4
AIML-0402-6R8K	6.8	± 10	20	11	2.4	18	4
AIML-0402-8R2K	8.2	± 10	20	10	2.9	18	4
AIML-0402-100K	10	± 10	20	9	3.1	10	2
AIML-0402-120K	12	± 10	20	8	3.3	5	2
AIML-0402-150K	15	± 10	20	8	3.5	5	1
AIML-0402-180K	18	± 10	20	8	3.5	5	1

Note:1 . K= ± 1 0%,M= ± 20%,N= ± 30%

• Testing:(Equivalent acceptable) Inductance & Q-HP4195A+HP41951 DCR:VOAC-7412 SRF:HP8753C

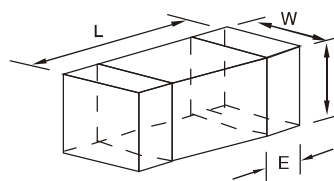
• Solderability:90% of the terminal Electrode shall be covered Preheat: 0 260t ± 5t for 160 seconds Solder:H63AA Eutectic Solder Flux:Rosin,Dip for 5 seconds ± 1 second

• Thermal Shock: Inductance shall be Within ± 5% of imital value and Q shall be within ± 30% of initial value When temperatur is -40t and +85t for 30 Min.for each 100 cycles

• Operating Temperature:-25°C to +85°C

• Storage Temperature: -40°C to +85°C

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	$\frac{0.012 \pm 0.008}{(0.3 \pm 0.2)}$
---	--	---	--	---	--	---	---



Dimensions: Inches (mm)