



# AIML0805 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 (μH)	Tol %	Q min.	SRF MHz min.	DCR Ohm max.	IDC max. mA	Test Freq. MHz
AIML-0805-47NM	47nH	±20	25	320	0.15	300	50
AIML-0805-56NM	56nH	±20	25	320	0.20	300	50
AIML-0805-68NM	68nH	±20	25	280	0.25	300	50
AIML-0805-82NM	82nH	±20	25	280	0.25	300	50
AIML-0805-R10K	.10	± 10	25	235	0.25	250	25
AIML-0805-R12K	.12	± 10	25	220	0.30	250	25
AIML-0805-R15K	.15	± 10	25	200	0.30	250	25
AIML-0805-R18K	.18	± 10	25	185	0.40	250	25
AIML-0805-R22K	.22	± 10	25	170	0.40	250	25
AIML-0805-R27K	.27	± 10	25	150	0.50	250	25
AIML-0805-R33K	.33	± 10	25	145	0.50	250	25
AIML-0805-R39K	.39	± 10	30	135	0.60	200	25
AIML-0805-R47K	.47	± 10	30	125	0.60	200	25
AIML-0805-R56K	.56	± 10	30	115	0.70	150	25
AIML-0805-R68K	.68	± 10	30	105	0.80	150	25
AIML-0805-R82K	.82	± 10	30	100	0.90	150	25
AIML-0805-1R0K	1.0	± 10	45	75	0.40	100	10
AIML-0805-1R2K	1.2	± 10	45	65	0.50	100	10
AIML-0805-1R5K	1.5	± 10	45	60	0.50	50	10
AIML-0805-1R8K	1.8	± 10	45	55	0.50	50	10
AIML-0805-2R2K	2.2	± 10	45	50	0.60	50	10
AIML-0805-2R7K	2.7	± 10	45	45	0.60	50	10
AIML-0805-3R3K	3.3	± 10	45	41	0.70	50	10
AIML-0805-3R9K	3.9	± 10	45	38	0.80	50	10
AIML-0805-4R7K	4.7	± 10	45	35	0.90	25	10
AIML-0805-5R6K	5.6	± 10	50	32	0.70	25	4
AIML-0805-6R8K	6.8	± 10	50	29	0.80	25	4
AIML-0805-8R2K	8.2	± 10	50	26	0.90	25	4
AIML-0805-100K	10	± 10	50	24	1.00	25	2
AIML-0805-120K	12	± 10	50	22	1.05	15	2
AIML-0805-150K	15	± 10	30	19	0.70	5	1
AIML-0805-180K	18	± 10	30	18	0.70	5	1
AIML-0805-220K	22	± 10	30	16	0.90	5	1
AIML-0805-270K	27	± 10	30	16	1.20	5	1
AIML-0805-330K	33	± 10	30	16	1.40	5	1
AIML-0805-390K	39	± 10	35	16	1.50	5	1
AIML-0805-470K	47	± 10	35	15	1.60	5	1
AIML-0805-560K	56	± 10	35	15	1.80	5	1
AIML-0805-680K	68	± 10	25	15	2.0	5	1
AIML-0805-820K	82	± 10	25	11	2.5	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 initial 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

