

SURFACE-MOUNT MULTI-LAYER FERRITE CHIP INDUCTORS

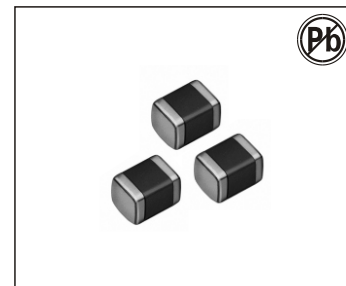
AIML-1812 SERIES

FEATURES:

- Compact size and light weight
- Excellentsolderability and heat resistance for either flow or reflow soldering
- No cross coupling between inductors due to magnetic shield

COMMON APPLICATIONS:

- Resonance circuit, traps, filter circuits
- RF choke in telecommunications equipment, cordless phones, radio equipment



ELECTRICAL CHARACTERISTICS:

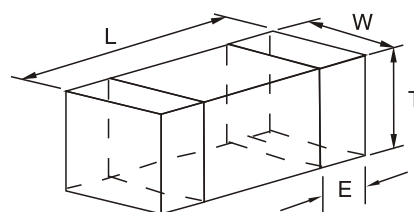
Part Number	L(uH) ± 10%	Q Min	L/Q Tset Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AIML1812-1R0K	1.0	35	10	50	0.55	650
AIML1812-1R2K	1.2	35	10	50	0.55	650
AIML1812-1R5K	1.5	35	10	45	0.55	600
AIML1812-1R8K	1.8	35	10	45	0.65	600
AIML1812-2R2K	2.2	35	10	40	0.65	500
AIML1812-2R7K	2.7	35	10	40	0.70	500
AIML1812-3R3K	3.3	35	10	35	0.75	500
AIML1812-3R9K	3.9	35	10	35	0.80	500
AIML1812-4R7K	4.7	30	10	25	0.90	500
AIML1812-5R6K	5.6	30	4	20	0.90	500
AIML1812-6R8K	6.8	30	4	18	1.0	500
AIML1812-8R2K	8.2	30	4	17	1.0	450
AIML1812-100K	10	30	2	16	1.0	450
AIML1812-120K	12	35	2	15	1.0	450
AIML1812-150K	15	35	1	14	1.0	400
AIML1812-180K	18	35	1	13	1.0	400
AIML1812-220K	22	35	1	12	1.3	300
AIML1812-270K	27	35	1	10	1.3	300
AIML1812-330K	33	40	1	10	1.5	250
AIML1812-390K	39	40	1	10	1.5	250
AIML1812-470K	47	40	1	8	1.65	250
AIML1812-560K	56	40	1	8	1.8	250
AIML1812-680M	68	40	1	6	2.0	200
AIML1812-820M	82	40	1	6	2.3	200
AIML1812-101M	100	40	1	6	2.3	150
AIML1812-121M	120	40	1	6	2.5	150

TECHNICAL INFORMATION:

- Testing:(Equivalents acceptable)
Inductance & 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:Emersion into methanol solution 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: -25°C to +85°C
- Storage Temperature: -25°C to +85°C

PHYSICAL CHARACTERISTICS:

Dimensions:(mm)



L	4.5 ± 0.2
W	3.2 ± 0.2
T	1.5 ± 0.2
E	0.5 ± 0.3