



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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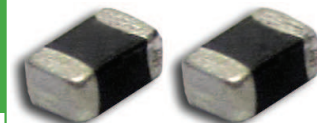
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# MULTILAYER FERRITE CHIP INDUCTOR



2.00 x 1.25 x 0.85 mm/  
2.00 x 1.25 x 1.25 mm

AIML-0805

**RoHS**  
Compliant

## FEATURES:

- Monolithic structure for higher reliability, compact size, & lightweight
- Magnetically shielded design to eliminate cross coupling
- Excellent solderability and heat resistance for reflow soldering
- Perfect shape for PCB mounting with no polarity

## APPLICATIONS:

- Resonance circuit, traps and filter circuits
- RF choke for cordless phones and radio equipment
- Communications, video and audio equipment, computer and remote Control.

## STANDARD SPECIFICATIONS:

### PARAMETERS

ABRACON P/N:	AIML-0805-xxx
Operating temperature:	-55°C to + 125°C
Storage temperature:	-55°C to + 125°C

### Test Conditions and equipments

**L, Q:** HP4291 Impedance Analyzer

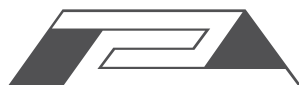
**DCR:** HP4263A LCR meter

**SRF:** HP4291 Impedance analyzer

**Ir:** HP4291 Impedance Analyzer, DC power HP6632 and Adapter HP16200.  $\Delta L/L$  (initial)  $\geq$  -5%

Part No. AIML-0805- Inductance Code	L( $\mu$ H)	Tolerance	Q (min)	Test Freq.	SRF(MHz)	DCR( $\Omega$ )	Ir(mA)
		(%)		(MHz)	(min)	(max)	(max)
AIML-0805-R047	0.047	K	15	50	350	0.20	300
AIML-0805-R056	0.056	K	15	50	350	0.20	300
AIML-0805-R068	0.068	K	15	50	280	0.20	300
AIML-0805-R082	0.082	K	15	50	255	0.20	300
AIML-0805-R10	0.100	K	20	25	235	0.30	250
AIML-0805-R12	0.120	K	20	25	220	0.30	250
AIML-0805-R15	0.150	K	20	25	200	0.40	250
AIML-0805-R18	0.180	K	20	25	185	0.40	250
AIML-0805-R22	0.220	K	20	25	170	0.50	250
AIML-0805-R27	0.270	K	20	25	150	0.50	250
AIML-0805-R33	0.330	K	20	25	145	0.55	250
AIML-0805-R39	0.390	K	25	25	135	0.65	200
AIML-0805-R47	0.470	K	25	25	125	0.65	200
AIML-0805-R56	0.560	K	25	25	115	0.75	150
AIML-0805-R68	0.680	K	25	25	105	0.80	150
AIML-0805-R82	0.820	K	25	25	100	1.00	150
AIML-0805-1R0	1.000	K	45	10	75	0.40	50
AIML-0805-1R2	1.200	K	45	10	65	0.50	50
AIML-0805-1R5	1.500	K	45	10	60	0.50	50
AIML-0805-1R8	1.800	K	45	10	55	0.60	50
AIML-0805-2R2	2.200	K	45	10	50	0.65	30
AIML-0805-2R7	2.700	K	45	10	45	0.75	30
AIML-0805-3R3	3.300	K	45	10	41	0.80	30
AIML-0805-3R9	3.900	K	45	10	38	0.90	30
AIML-0805-4R7	4.700	K	45	10	35	1.00	30
AIML-0805-5R6	5.600	K	55	4	32	0.90	15
AIML-0805-6R8	6.800	K	55	4	29	1.00	15
AIML-0805-8R2	8.200	K	55	4	26	1.10	15
AIML-0805-100	10.000	K	55	2	24	1.15	15
AIML-0805-120	12.000	K	55	2	22	1.25	15
AIML-0805-150	15.000	K	40	1	19	0.80	5
AIML-0805-180	18.000	K	40	1	18	0.90	5
AIML-0805-220	22.000	K	40	1	16	1.10	5
AIML-0805-270	27.000	K	25	1	14	1.15	5
AIML-0805-330	33.000	K	25	1	13	1.25	5
AIML-0805-390	39.000	K	25	1	13	1.50	4

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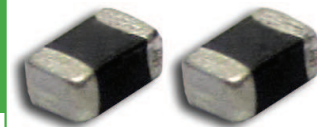
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Revised: 10.11.12



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2.00 x 1.25 x 0.85 mm/  
2.00 x 1.25 x 1.25 mm

AIML-0805

**RoHS**  
Compliant

## OPTIONS AND PART IDENTIFICATION:

AIML-0805---

### Inductance Code

Please refer to the table above

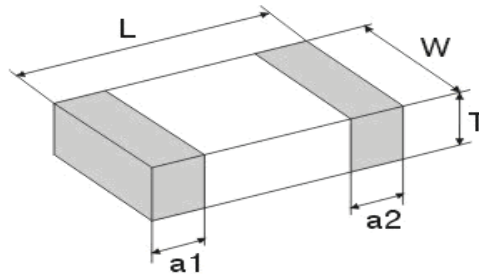
### Tolerance

K:  $\pm 10\%$

### Packaging

T: Tape and Reel  
(4kpcs / reel for L less than  $12\mu\text{H}$ ;  
3kpcs / reel for  $12\mu\text{H}$  or above)

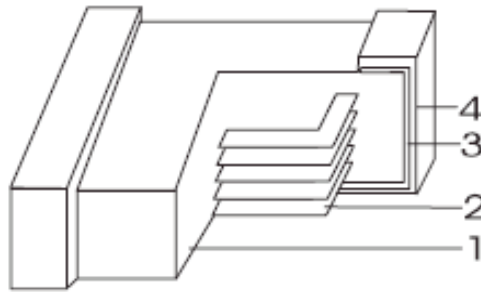
## OUTLINE DRAWING:



Dimension: mm [inch]

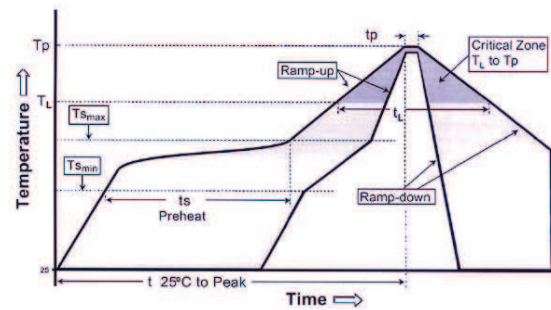
L	W	T	a1,a2
2.00 $\pm$ 0.20 [0.079 $\pm$ 0.008]	1.25 $\pm$ 0.20 [0.049 $\pm$ 0.008]	0.85 $\pm$ 0.20 [0.033 $\pm$ 0.008] for L less than $12\mu\text{H}$ ; 1.25 $\pm$ 0.20 [0.049 $\pm$ 0.008] for $12\mu\text{H}$ or above	0.50 $\pm$ 0.30 [0.02 $\pm$ 0.012]

## MATERIAL:



	Part Name	Material
1	Base Material	Ferrite (Ni-Cu-Zn series)
2	Internal Conductor	Ag
3	Terminal Electrode	Ag
4	Terminal Electrode	Ni-Sn

## REFLOW PROFILE:



Profile Feature	Lead-Free Assembly
Average Ramp-Up Rate (T <sub>max</sub> to T <sub>p</sub> )	3°C /second max.
Preheat - Temperature Min (T <sub>min</sub> ) - Temperature Max (T <sub>max</sub> ) - Time (t <sub>s</sub> min to t <sub>s</sub> max)	150 °C 200 °C 60-180 seconds
Time maintained above: - Temperature (T <sub>L</sub> ) - Time (t <sub>L</sub> )	217 °C 60-150 seconds
Peak/Classification Temperature (T <sub>p</sub> ) Peak/Classification Time (T <sub>p</sub> )	260 °C 3-4 seconds
Time within 5 °C of actual Peak Temperature (t <sub>p</sub> )	20-40 seconds
Ramp-Down Rate	6°C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

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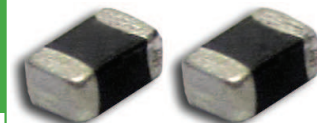


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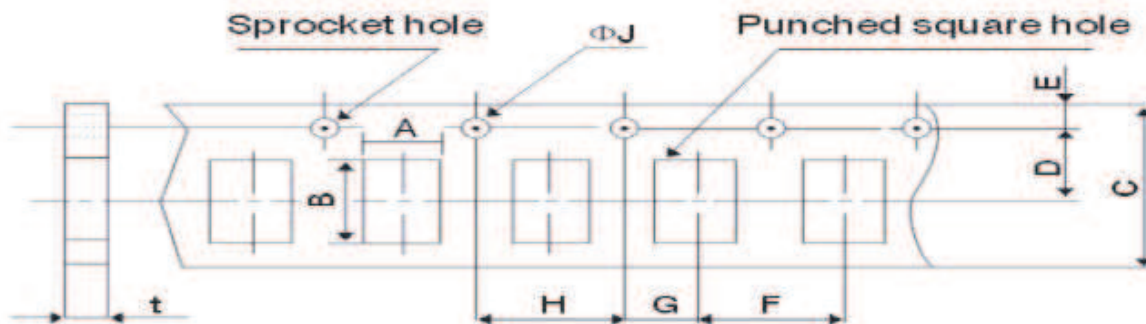
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AIML-0805

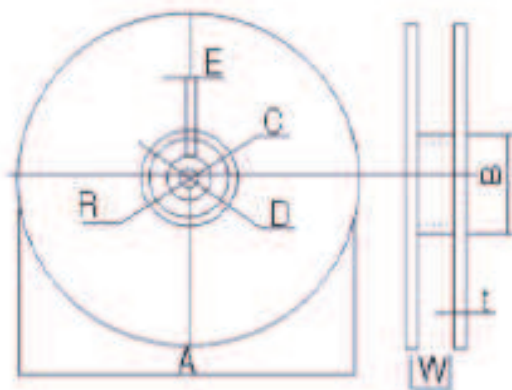
RoHS  
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## TAPE & REEL:

T: 4,000pcs / reel for L less than 12μH (paper tape); 3,000pcs / reel for 12μH or above (embossed tape)



A	B	C	D	E	F	G	H	ΦJ	t(max)
1.5±0.15	2.5±0.2	8.0±0.3	3.5±0.05	1.75±0.1	4.0±0.1	2.0±0.05	4.0±0.1	1.5+0.1/-0	1.1±0.05 for L less than 12μH; 1.0±0.05 for 12μH or above



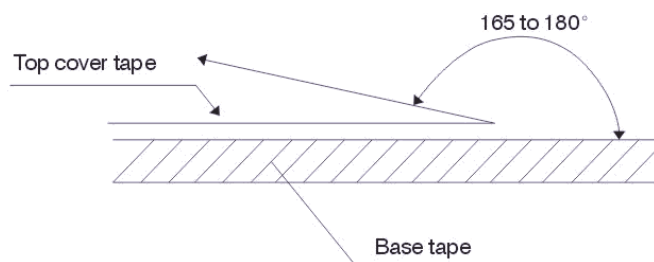
A	178±2
B	60±2
C	13.0±0.5
D	21.0±0.8
E	2.0±0.5
W	10.0±1.15
t	1.2±0.2
R	1.0±0.25

### Peeling strength of cover tape

0.3~0.7N (30gf~70gf)

Test condition:

- 1) peel angle: 165°~180° vs. carrier tape.
- 2) peel speed: 300 mm/min±10%.



Dimension: mm

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