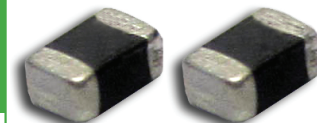


MULTILAYER FERRITE CHIP INDUCTOR



2.00 x 1.25 x 0.85mm

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%

Unless otherwise specified

Temperature : Ordinary Temperature (5 to 35°C)

Humidity : Ordinary Humidity (25 to 85% RH)

Part No.	L(μ H)	Tolerance	Q (min)	Test Freq.	SRF(MHz)	DCR(Ω)	Ir(mA)
		(%)		(MHz)	(min)	(max)	(max)
AIML-0805-47N	0.047	J, K	15	50	350	0.20	300
AIML-0805-56N	0.056	J, K	15	50	350	0.20	300
AIML-0805-68N	0.068	J, K	15	50	280	0.20	300
AIML-0805-82N	0.082	J, K	15	50	255	0.20	300
AIML-0805-R10	0.100	J, K	20	25	235	0.30	250
AIML-0805-R12	0.120	J, K	20	25	220	0.30	250
AIML-0805-R15	0.150	J, K	20	25	200	0.40	250
AIML-0805-R18	0.180	J, K	20	25	185	0.40	250
AIML-0805-R22	0.220	J, K	20	25	170	0.50	250
AIML-0805-R27	0.270	J, K	20	25	150	0.50	250
AIML-0805-R33	0.330	J, K	20	25	145	0.55	250
AIML-0805-R39	0.390	J, K	25	25	135	0.65	200
AIML-0805-R47	0.470	J, K	25	25	125	0.65	200
AIML-0805-R56	0.560	J, K	25	25	115	0.75	150
AIML-0805-R68	0.680	J, K	25	25	105	0.80	150
AIML-0805-R82	0.820	J, K	25	25	100	1.00	150
AIML-0805-1R0	1.000	J, K	45	10	75	0.40	50
AIML-0805-1R2	1.200	J, K	45	10	65	0.50	50
AIML-0805-1R5	1.500	J, K	45	10	60	0.50	50
AIML-0805-1R8	1.800	J, K	45	10	55	0.60	50
AIML-0805-2R2	2.200	J, K	45	10	50	0.65	30
AIML-0805-2R7	2.700	J, K	45	10	45	0.75	30
AIML-0805-3R3	3.300	J, K	45	10	41	0.80	30
AIML-0805-3R9	3.900	J, K	45	10	38	0.90	30
AIML-0805-4R7	4.700	J, K	45	10	35	1.00	30
AIML-0805-5R6	5.600	J, K	55	4	32	0.90	15
AIML-0805-6R8	6.800	J, K	55	4	29	1.00	15
AIML-0805-8R2	8.200	J, K	55	4	26	1.10	15
AIML-0805-100	10.000	J, K	55	2	24	1.15	15
AIML-0805-120	12.000	J, K	55	2	22	1.25	15
AIML-0805-150	15.000	J, K	40	1	19	0.80	5
AIML-0805-180	18.000	J, K	40	1	18	0.90	5
AIML-0805-220	22.000	J, K	40	1	16	1.10	5
AIML-0805-270	27.000	J, K	25	1	14	1.15	5
AIML-0805-330	33.000	J, K	25	1	13	1.25	5
AIML-0805-390	39.000	J, K	25	1	13	1.50	4
AIML-0805-470	47.000	J, K	25	1	12	1.80	4
AIML-0805-560	56.000	J, K	25	1	11	2.20	4
AIML-0805-680	68.000	J, K	25	1	10	2.20	2
AIML-0805-820	82.000	J, K	25	1	9	2.50	2
AIML-0805-101	100.000	J, K	25	1	8	2.50	2

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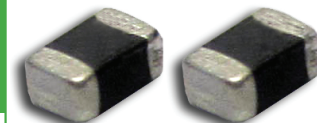
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Revised: 01.30.12

MULTILAYER FERRITE CHIP INDUCTOR



2.00 x 1.25 x 0.85mm

AIML-0805

RoHS
Compliant

OPTIONS AND PART IDENTIFICATION:

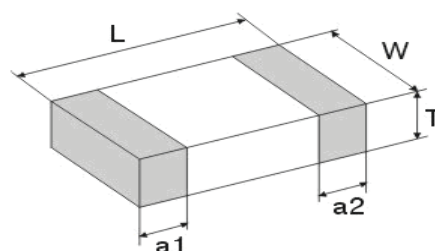
AIML-0805- [] [] - []

Inductance Code
Please refer to the table above

Tolerance
J: $\pm 5\%$
K: $\pm 10\%$

Packaging
T: Tape and Reel (4kpcs / reel)

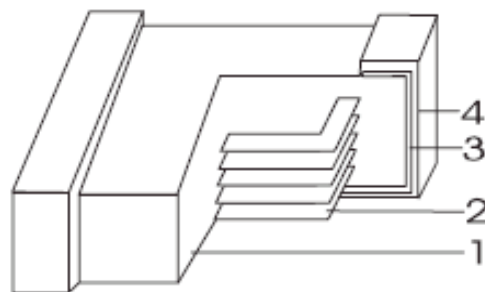
OUTLINE DRAWING:



Dimension: mm [inch]

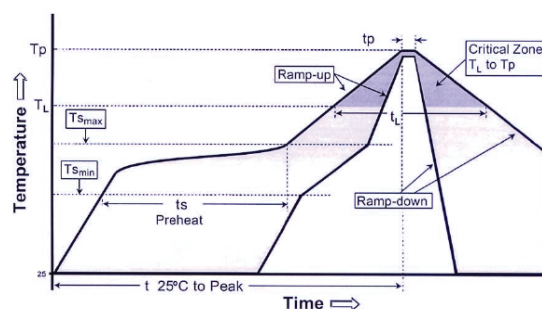
Series	L	W	T	a1,a2
AIML-0805	2.00 \pm 0.20	1.25 \pm 0.20	0.85 \pm 0.20	0.50 \pm 0.30
	[0.079 \pm 0.008]	[0.049 \pm 0.008]	[0.033 \pm 0.008]	[0.02 \pm 0.012]

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:



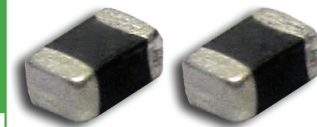
Profile Feature	Lead-Free Assembly
Average Ramp-Up Rate (T _{lmax} to T _p)	3°C /second max.
Preheat	
- Temperature Min (T _{lmin})	150 °C
- Temperature Max (T _{lmax})	200 °C
- Time (t _s min to t _s max)	60-180 seconds
Time maintained above:	
- Temperature (T _l)	217 °C
- Time (t _l)	60-150 seconds
Peak/Classification Temperature (T _p)	260 °C
Peak/Classification Time (T _p)	3-4 seconds
Time within 5 °C of actual Peak Temperature (t _p)	20-40 seconds
Ramp-Down Rate	6°C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

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MULTILAYER FERRITE CHIP INDUCTOR

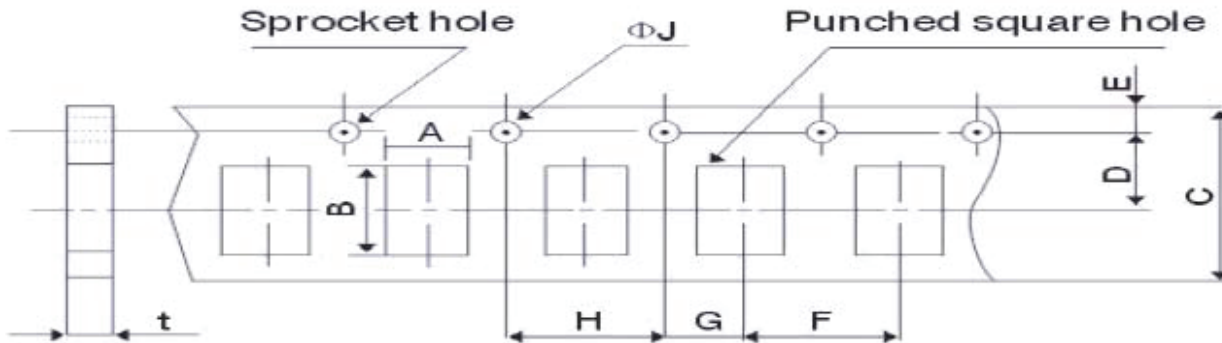


2.00 x 1.25 x 0.85mm

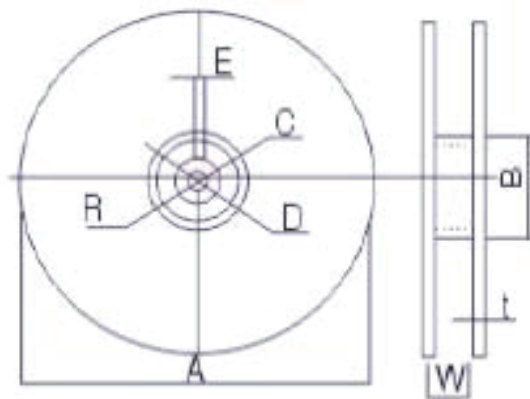
AIML-0805

RoHS
Compliant

TAPE & REEL: T: 4,000pcs / reel



Codes	A	B	C	D	E	F	G	H	ΦJ	t(max)
AIML-0805	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



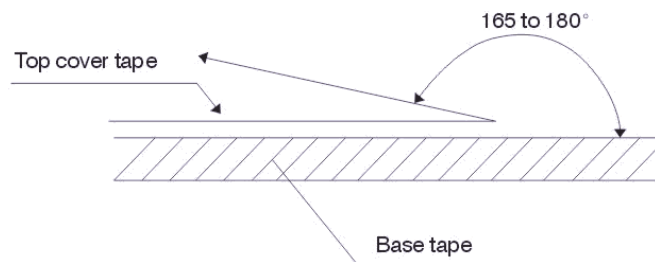
A	178±2
B	60±2
C	13.0±0.5
D	21.0±0.8
E	2.0±0.5
W	10.0±1.15
t	1.2±0.2
R	1.0±0.25

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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