



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!



Contact us

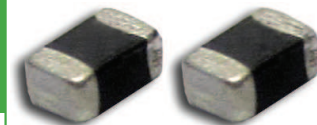
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MULTILAYER FERRITE CHIP INDUCTOR



1.0 x 0.5 x 0.5mm

AIML-0402

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:

Part No.	L(μ H)	Tolerance	Q (min)	Test Freq.	SRF(MHz)	DCR(Ω)	Ir(mA)
		(%)		(MHz)	(min)	(max)	(max)
AIML-0402-1R0	1.0	J, K	20	10	40	0.9	15
AIML-0402-1R2	1.2	J, K	20	10	35	1.2	15
AIML-0402-1R5	1.5	J, K	20	10	30	1.2	15
AIML-0402-1R8	1.8	J, K	20	10	30	1.45	15
AIML-0402-2R2	2.2	J, K	20	10	28	1.75	10
AIML-0402-2R7	2.7	J, K	20	10	22	2	10

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)

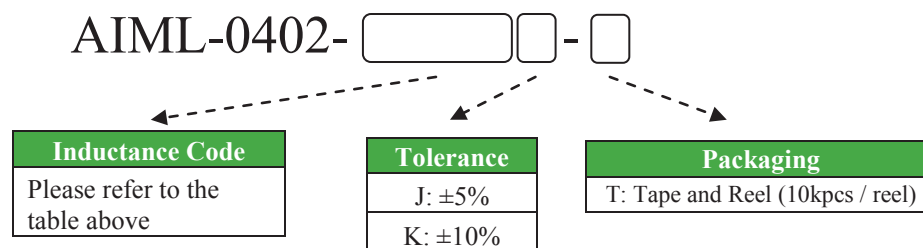
Humidity : Ordinary Humidity (25 to 85% RH)

PARAMETERS

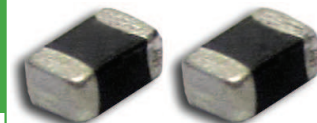
ABRACON P/N:	AIML-0402-xxx
Operating temperature :	-55°C to + 125°C
Storage temperature:	-55°C to + 125°C

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)



MULTILAYER FERRITE CHIP INDUCTOR

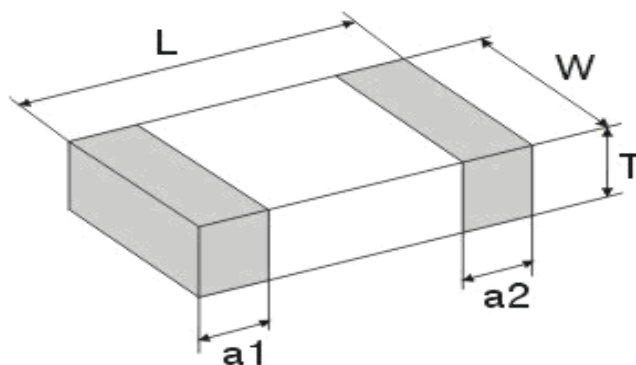


1.0 x 0.5 x 0.5mm

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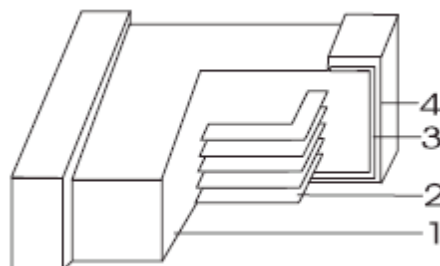
OUTLINE DRAWING:



Series	L	W	T	a1,a2
AIML-0402	1.00±0.15	0.50±0.15	0.50±0.15	0.25±0.10
	[0.04±0.006]	[0.02±0.006]	[0.02±0.006]	[0.01±0.004]

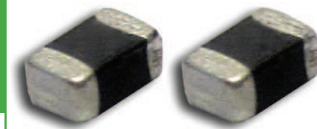
Dimension: mm [inch]

MATERIALS:



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

MULTILAYER FERRITE CHIP INDUCTOR

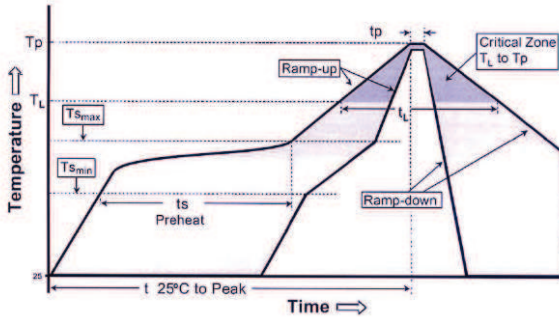


1.0 x 0.5 x 0.5mm

AIML-0402

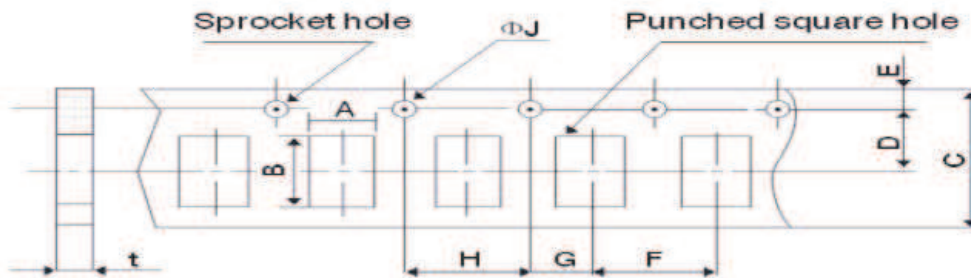
RoHS
Compliant

REFLOW PROFILE:

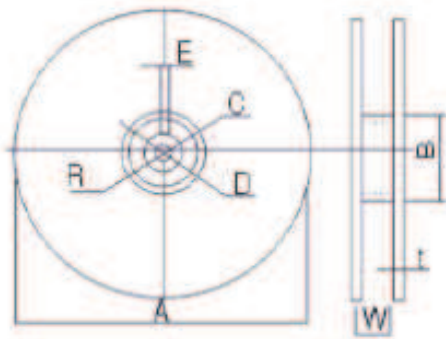


Profile Feature	Lead-Free Assembly
Average Ramp-Up Rate (T _{max} to T _p)	3°C/second max.
Preheat - Temperature Min (T _{min}) - Temperature Max (T _{max}) - Time (t _{min} to t _{max}) (min to t _{max})	150 °C 200 °C 60-180 seconds
Time maintained above: - Temperature (T _L) - Time (t _L)	217 °C 60-150 seconds
Peak-Classification Temperature (T _p) Peak-Classification Time (T _p)	260 °C 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.

PACKAGING: T: 10,000pcs / reel



Codes	A	B	C	D	E	F	G	H	ΦJ	t(max)
AIML-0402	0.65±0.10	1.15±0.10	8.0±0.3	3.5±0.05	1.75±0.1	2.0±0.05	2.0±0.05	4.0±0.1	1.5+0.1/-0	0.8±0.05



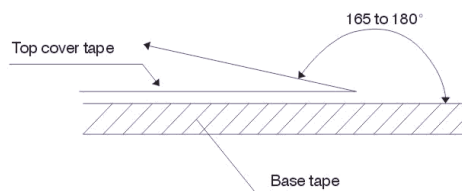
A	178±2
B	60±2
C	13.0±0.5
D	21.0±0.8
E	2.0±0.5
W	10.0±1.15
t	1.2±0.2
R	1.0±0.25

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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