



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

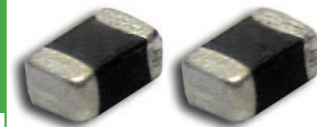
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



MULTILAYER FERRITE CHIP INDUCTOR



1.6 x 0.8 x 0.8mm

AIML-0603

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-0603-xxx
Operating temperature:	-55°C to + 125°C
Storage temperature:	-55°C to + 125°C

Part No.	L(μH)	Tolerance	Q	Test Freq.	SRF(MHz)	DCR(Ω)	Ir(mA)
		(%)	(min)	(MHz)	(min)	(max)	(max)
AIML-0603-47N	0.047	J, K	15	50	600	0.20	50
AIML-0603-56N	0.056	J, K	15	50	550	0.30	50
AIML-0603-68N	0.068	J, K	15	50	500	0.30	50
AIML-0603-82N	0.082	J, K	15	50	450	0.30	50
AIML-0603-R10	0.100	J, K	15	25	400	0.50	50
AIML-0603-R12	0.120	J, K	15	25	350	0.50	50
AIML-0603-R15	0.150	J, K	15	25	300	0.60	50
AIML-0603-R18	0.180	J, K	15	25	280	0.60	50
AIML-0603-R22	0.220	J, K	15	25	260	0.80	50
AIML-0603-R27	0.270	J, K	15	25	255	0.80	50
AIML-0603-R33	0.330	J, K	15	25	250	0.85	35
AIML-0603-R39	0.390	J, K	15	25	245	1.00	35
AIML-0603-R47	0.470	J, K	15	25	240	1.35	35
AIML-0603-R56	0.560	J, K	15	25	205	1.55	35
AIML-0603-R68	0.680	J, K	15	25	180	1.70	35
AIML-0603-R82	0.820	J, K	15	25	165	2.10	35
AIML-0603-1R0	1.000	J, K	35	10	125	0.60	25
AIML-0603-1R2	1.200	J, K	35	10	110	0.80	25
AIML-0603-1R5	1.500	J, K	35	10	105	0.80	25
AIML-0603-1R8	1.800	J, K	35	10	95	0.95	25
AIML-0603-2R2	2.200	J, K	35	10	90	1.15	15
AIML-0603-2R7	2.700	J, K	35	10	80	1.35	15
AIML-0603-3R3	3.300	J, K	35	10	70	1.55	15
AIML-0603-3R9	3.900	J, K	35	10	60	1.70	15
AIML-0603-4R7	4.700	J, K	35	10	50	2.10	15
AIML-0603-5R6	5.600	J, K	35	4	45	1.55	5
AIML-0603-6R8	6.800	J, K	35	4	40	1.70	5
AIML-0603-8R2	8.200	J, K	35	4	35	2.10	4
AIML-0603-100	10.000	J, K	35	2	33	2.55	3
AIML-0603-120	12.000	J, K	35	2	22	2.75	3
AIML-0603-150	15.000	J, K	20	1	20	1.70	1
AIML-0603-180	18.000	J, K	20	1	18	1.85	1
AIML-0603-220	22.000	J, K	20	1	15	2.10	1
AIML-0603-270	27.000	J, K	20	1	12	2.75	1

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)

ABRACON IS
ISO 9001:2008
CERTIFIED



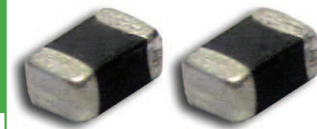
ABRACON
CORPORATION

Visit www.abracon.com for Terms & Conditions of Sale

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

Revised: 01.26.12

MULTILAYER FERRITE CHIP INDUCTOR



1.6 x 0.8 x 0.8mm

AIML-0603

RoHS
Compliant

OPTIONS AND PART IDENTIFICATION:

AIML-0603- [] [] - []

Inductance Code

Please refer to the table above

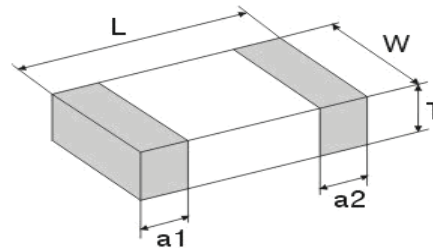
Tolerance

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

Packaging

T: Tape and Reel (4kpcs / reel)

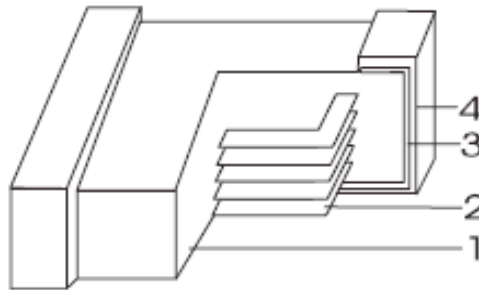
OUTLINE DRAWING:



Dimension: mm [inch]

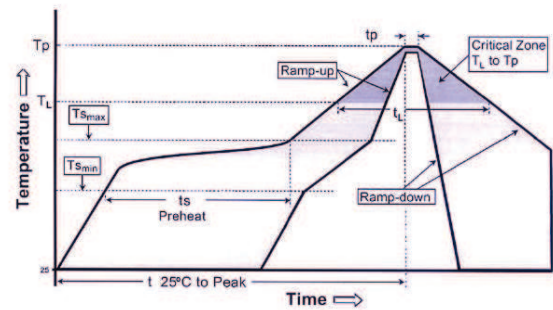
Series	L	W	T	a1,a2
AIML-0603	1.60 \pm 0.15 [0.063 \pm 0.006]	0.80 \pm 0.15 [0.031 \pm 0.006]	0.80 \pm 0.15 [0.031 \pm 0.006]	0.30 \pm 0.20 [0.012 \pm 0.008]

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 _{smax} to T _p)	3°C /second max.
Preheat - Temperature Min (T _{smin}) - Temperature Max (T _{smax}) - Time (t _s min to t _{smax})	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.

ABRACON IS
ISO 9001:2008
CERTIFIED

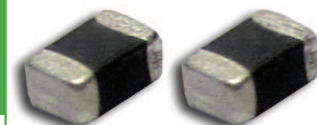


ABRACON
CORPORATION

Visit www.abracon.com for Terms & Conditions of Sale
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

Revised: 01.26.12

MULTILAYER FERRITE CHIP INDUCTOR

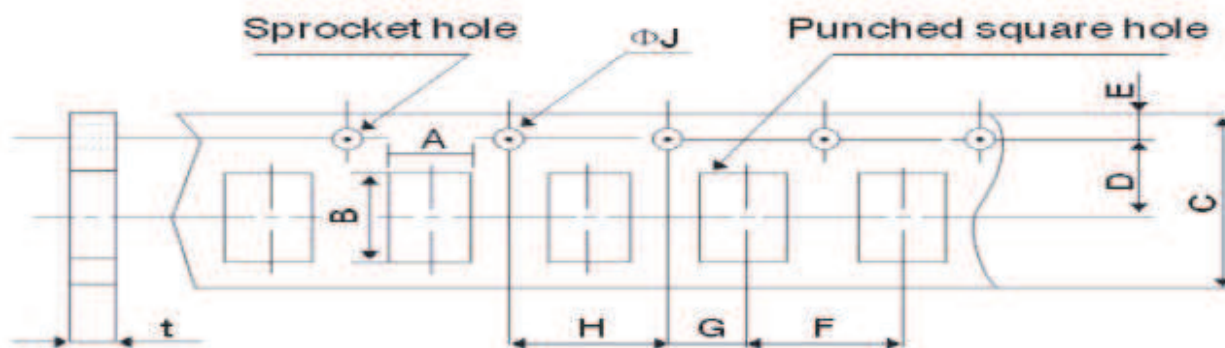


1.6 x 0.8 x 0.8mm

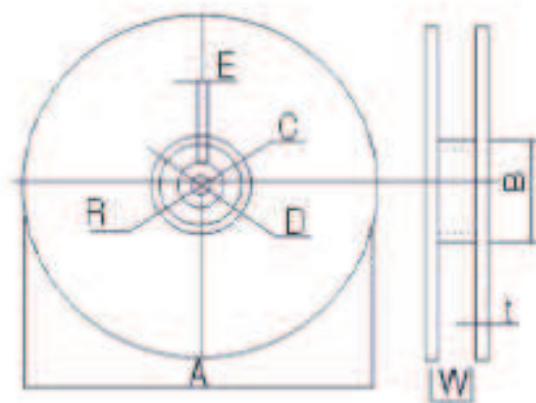
AIML-0603

RoHS
Compliant

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



Codes	A	B	C	D	E	F	G	H	ΦJ	t(max)
AIML-0603	1.05±0.10	1.9±0.10	8.0±0.3	3.5±0.05	1.75±0.1	4.0±0.05	2.0±0.05	4.0±0.1	1.5+0.1/-0	1.0±0.05



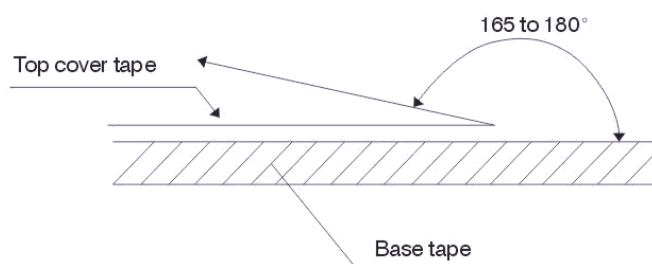
A	178±2
B	60±2
C	13.0±0.5
D	21.0±0.8
E	2.0±0.5
W	10.0±1.15
t	1.2±0.2
R	1.0±0.25

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

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS
ISO 9001:2008
CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

Revised: 01.26.12