



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

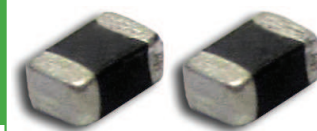
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Multilayer Ferrite Chip Inductor (High Current)



2.00 x 1.25 x 0.85mm
2.00 x 1.25 x 1.15mm

AIML-0805HC



RoHS/RoHS II 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:

- DC/DC converter circuit for Front End Module such as Skyworks Solution
- Portable AV equipments such as Digital Camera, Camcorder remote Control.

STANDARD SPECIFICATIONS:

PARAMETERS

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

Part No. AIML-0805HC- Inductance Code	L(μH)	Tolerance	Test Freq.	SRF(MHz)	DCR(Ω)	Isat(mA)	Irms(mA)
		(%)	(MHz)	(min)	±30%	(max)	(max)
AIML-0805HC-1R0	1.0	M	1.0	75	0.15	400	1400
AIML-0805HC-1R5	1.5	M	1.0	60	0.16	180	1300
AIML-0805HC-2R2	2.2	M	1.0	50	0.20	150	1200
AIML-0805HC-4R7	4.7	M	1.0	35	0.25	100	1000
AIML-0805HC-100	10.0	M	1.0	24	0.32	60	500
AIML-0805HC-220	22.0	M	1.0	18	0.70	40	300

Test Conditions and equipments

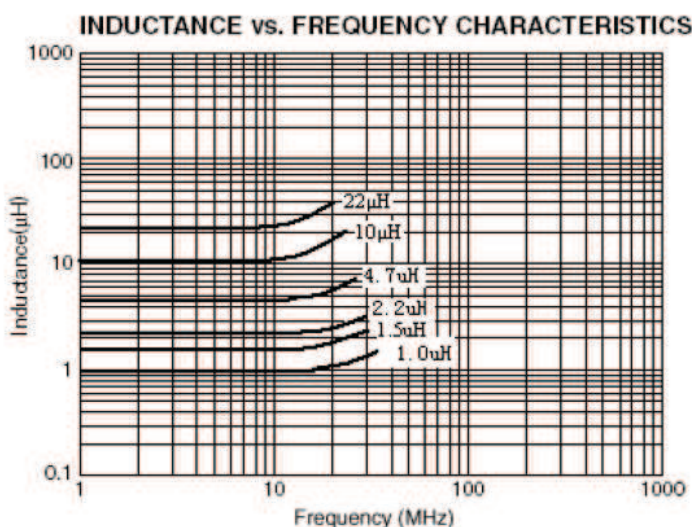
L: HP4291 Impedance Analyzer, 50mV

DCR: HP4263A LCR meter

Irms: HP4291 Impedance Analyzer, DC power HP6632 and Adapter HP16200.

Current when temperature of the product reaches +40°C.

ELECTRICAL CHARACTERISTICS CURVE

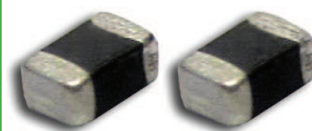


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PART NUMBER IDENTIFICATION

AIML-0805HC--

Inductance Code

Please refer to the table above

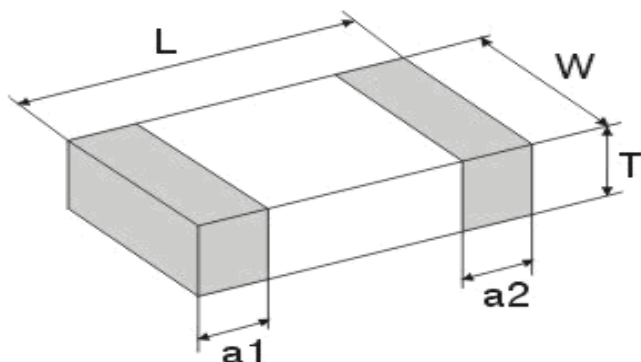
Tolerance

M: $\pm 20\%$

Packaging

T: Tape and Reel
(3kpcs / reel)

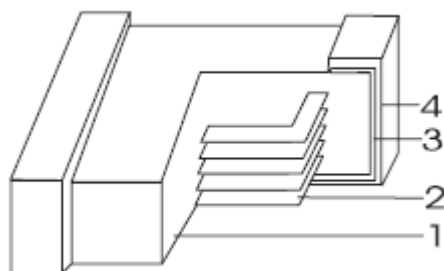
OUTLINE DIMENSION



L	W	T	a1,a2
2.00 \pm 0.20	1.25 \pm 0.20	0.85 \pm 0.10 (for 1 μ H~4.7 μ H) 1.15 \pm 0.10 (for 10 μ H and 22 μ H)	0.50 \pm 0.30

Dimension: mm

Materials



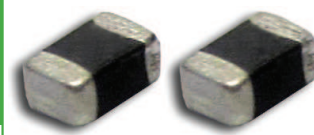
	Part Name	Material
1	Base Material	Ferrite (Ni-Cu-Zn series)
2	Internal Conductor	Ag
3	Terminal Electrode	Ag
4	Terminal Electrode	Ni-Sn

Multilayer Ferrite Chip Inductor (High Current)

AIML-0805HC

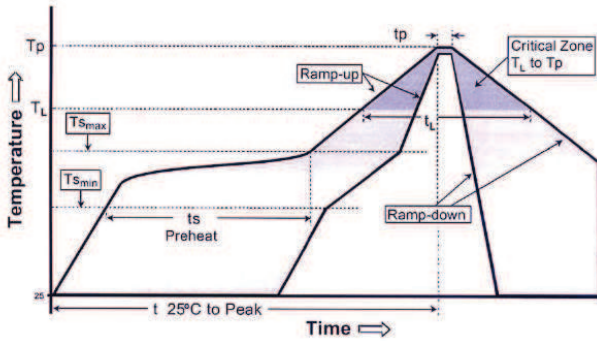


RoHS/RoHS II compliant



2.00 x 1.25 x 0.85mm
2.00 x 1.25 x 1.15mm

REFLOW PROFILE

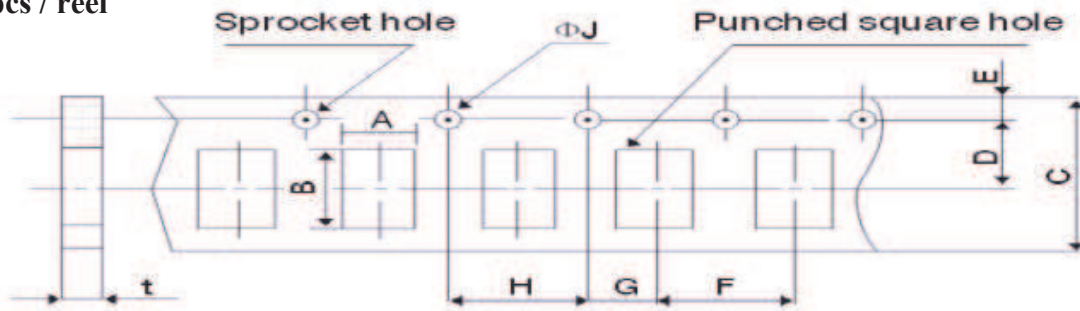


Profile Feature	Lead-Free Assembly
Average Ramp-Up Rate (T _{smax} to T _p)	3°C/second max.
Preheat - Temperature Min (T _{smin}) - Temperature Max (T _{smax}) - Time (t _{smin} to t _{smax}) min to t _{smax})	150 °C 200 °C 60-180 seconds
Time maintained above: - Temperature (T _L) - Time (t _L)	217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

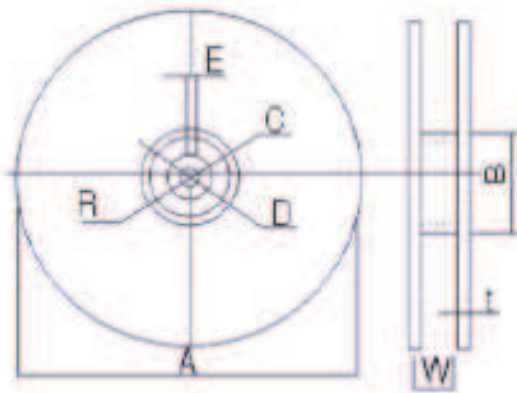
TAPE & REEL

Packing

T: 3,000pcs / reel



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	1.0±0.05 (for 1µH~4.7µH) 1.1±0.05 (for 10µH and 22µH)



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

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Revised: 03.04.14