

Multilayer Ferrite Chip Inductor (High Current)



AIML-0805HC Series

Request Samples



Check Inventory



2.00 x 1.25 x 1.25mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Monolithic structure for higher reliability, compact size, & lightweight
- 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 equipment such as Digital Camera, Camcorder remote Control.

Electrical Specifications

Part No. AIML-0805HC- Inductance Code	L(μ H)	Tolerance	Test Freq.	SRF(MHz)	DCR(Ω)	Isat(mA)	Irms(mA)	Thickness
		(%)	(MHz)	(min)	$\pm 30\%$	(max)	(max)	mm
AIML-0805HC-R47	0.47	M	1.0	100	0.08	1200	1500	0.9 $\pm$ 0.10
AIML-0805HC-1R0	1.0	M	1.0	60	0.11	1150	1300	
AIML-0805HC-1R5	1.5	M	1.0	50	0.16	800	1100	
AIML-0805HC-2R2	2.2	M	1.0	40	0.20	500	900	
AIML-0805HC-3R3	3.3	M	1.0	30	0.20	350	900	
AIML-0805HC-4R7	4.7	M	1.0	30	0.25	280	800	
AIML-0805HC-6R8	6.8	M	1.0	45	0.30	250	1000	1.25 $\pm$ 0.20
AIML-0805HC-100	10.0	M	1.0	24	0.30	130	1000	

Test Conditions and equipment

L: HP4291 Impedance Analyzer or equivalent, 50mV

DCR: HP4263A LCR meter or equivalent

Irms: HP4291 Impedance Analyzer, DC power HP6632 and Adapter HP16200 or equivalent.
Current when temperature of the product reaches +40°C.

Isat: HP4291 Impedance Analyzer, DC power HP6632 and Adapter HP16200 or equivalent.
 $\Delta L/L$ (initial) $\geq -30\%$

Operating Temperature: -40°C ~ +85°C

Storage Temperature: -10 °C ~+40 °C and RH 70% (Max.)

AIML-0805HC Series is **RoHS/RoHS II Compliant and Pb free.**



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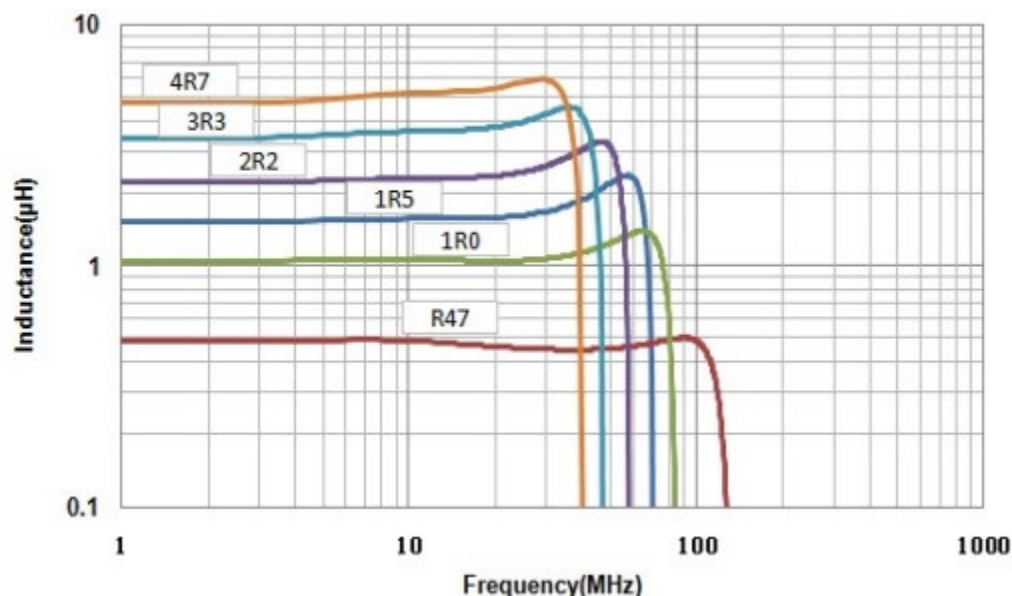


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Electrical Specifications



Part Identification

AIML-0805HC--

Inductance Code

Please refer to the table above

Tolerance

M: ±20%

Packaging

T: Tape and Reel
(3kpcs / reel)

Blank: Bulk



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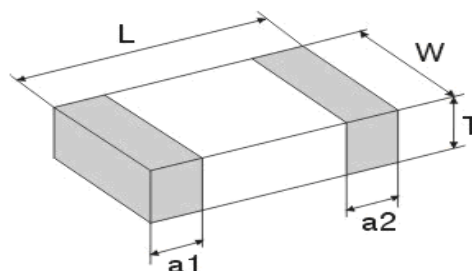


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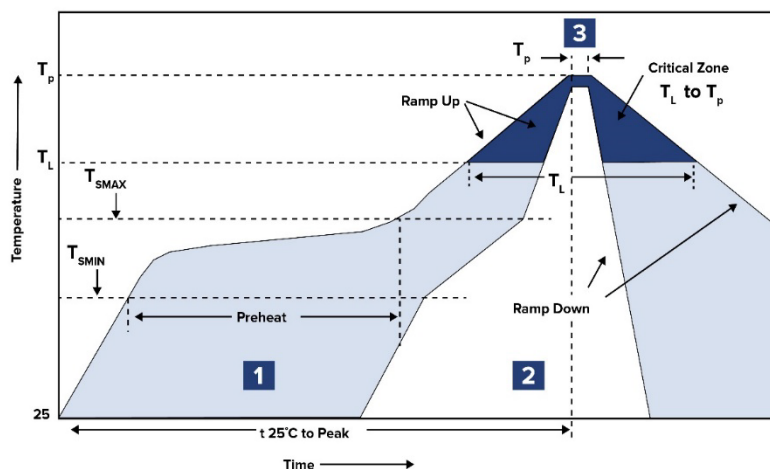
Mechanical Specifications



L	W	T	a1,a2
2.00 +0.3/-0.1	1.25±0.20	0.9±0.10 (for 1~4.7μH) 1.25±0.20 (for 6.8 ~ 10μH)	0.50±0.30

Dimension: mm

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	T_L 230°C	30 ~ 40 sec.
3	Peak heat	T_P 260°C±5°C	10 sec. MAX



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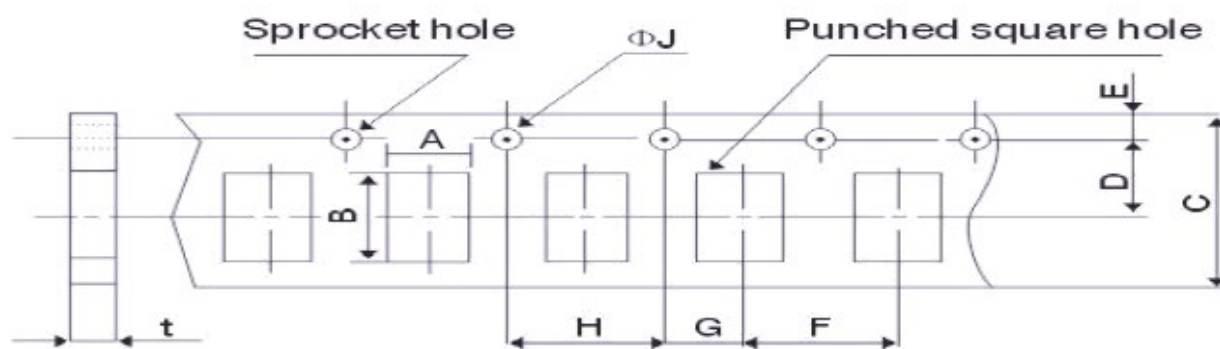
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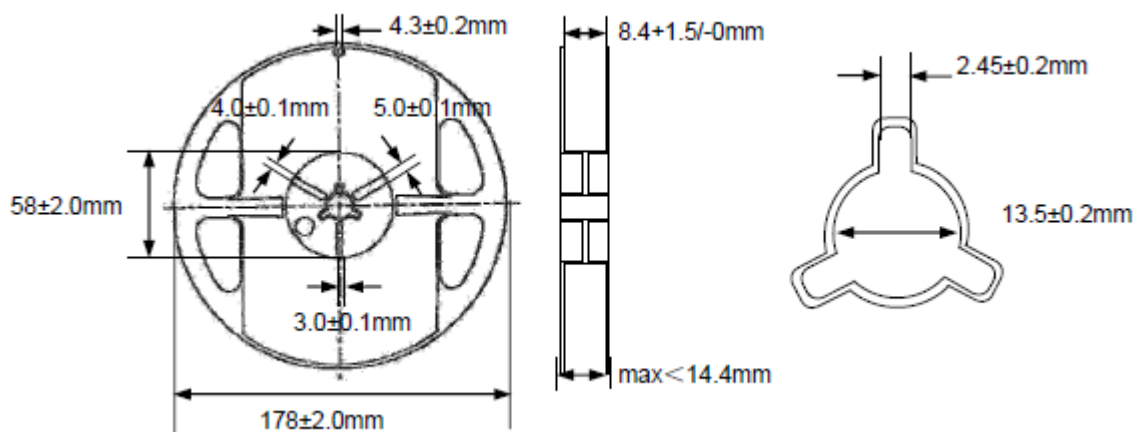
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Packaging

T: 3,000 pcs/reel



A	B	C	D	E	F	G	H	ΦJ	t(max)
1.55±0.1	2.3±0.1	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	1.45



Dimension: mm

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