



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!



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MULTILAYER CHIP CERAMIC INDUCTORS

RoHS
Compliant



2.00 x 1.25 x 0.85mm

AIMC-0805

FEATURES:

- High self-resonant frequency
- Multilayer monolithic construction yields high reliability
- Excellent solderability & heat resistance for reflow soldering

APPLICATIONS:

- Bluetooth
- Mobile phones such as GSM, CDMA, PDC
- High frequency telecommunication circuits
- Other high frequency circuit general use

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N:	AIMC-0805-xxx Series
Operating temperature:	-55°C to + 125°C
Storage temperature:	-55°C to + 125°C

Part No.	L(nH)	Tolerance	L,Q Test	Q	SRF(MHz)	DCR(Ω)	Ir(mA)
			Freq.				
			(MHz)		(min)	(max)	(max)
AIMC-0805-1N5	1.5	S, D	100	10	6000	0.10	600
AIMC-0805-1N8	1.8	S, D	100	10	6000	0.10	600
AIMC-0805-2N2	2.2	S, D	100	10	6000	0.10	600
AIMC-0805-2N7	2.7	S, D	100	12	6000	0.10	600
AIMC-0805-3N3	3.3	S, D, K	100	12	6000	0.13	600
AIMC-0805-3N9	3.9	S, D, K	100	12	5400	0.15	600
AIMC-0805-4N7	4.7	S, D, K	100	12	4000	0.20	400
AIMC-0805-5N6	5.6	S, D, K	100	15	3500	0.23	400
AIMC-0805-6N8	6.8	J, K	100	15	2800	0.25	400
AIMC-0805-8N2	8.2	J, K	100	15	2400	0.28	400
AIMC-0805-10N	10	J, K	100	15	2100	0.30	300
AIMC-0805-12N	12	J, K	100	15	1900	0.35	300
AIMC-0805-15N	15	J, K	100	15	1800	0.40	300
AIMC-0805-18N	18	J, K	100	15	1500	0.45	300
AIMC-0805-22N	22	J, K	100	15	1400	0.50	300
AIMC-0805-27N	27	J, K	100	15	1300	0.55	300
AIMC-0805-33N	33	J, K	100	15	1200	0.60	300
AIMC-0805-39N	39	J, K	100	15	1000	0.65	300
AIMC-0805-47N	47	J, K	100	15	900	0.70	300
AIMC-0805-56N	56	J, K	100	15	800	0.75	300
AIMC-0805-68N	68	J, K	100	15	700	0.80	300
AIMC-0805-82N	82	J, K	100	15	600	0.90	300
AIMC-0805-R10	100	J, K	100	15	600	0.90	300
AIMC-0805-R12	120	J, K	100	13	500	0.95	300
AIMC-0805-R15	150	J, K	50	13	500	1.00	300
AIMC-0805-R18	180	J, K	50	13	400	1.20	300
AIMC-0805-R22	220	J, K	50	12	350	1.40	300

Test Conditions

L, Q: HP4291 Impedance Analyzer, 100MHz, 50mV
DCR: HP4263A LCR meter

SRF: HP4291 Impedance analyzer, HP8753 Network analyzer

Ir: DC Power Supplier, Current Meter, Thermometer.
 ΔL/L (initial) ≥ -5% or ΔT ≤ 20°C

Unless otherwise specified

Temperature : Ordinary Temperature (5 to 35°C)

Humidity : Ordinary Humidity (25 to 85% RH)

Atmospheric Pressure : 86 to 106 kPa

OPTIONS AND PART IDENTIFICATION: (Left blank if standard)

AIMC-0805- [] [] - []

Inductance Code

Please refer to
Electrical Spec Table

Tolerance

S: ±0.3nH*
 D: ±0.5nH*
 J: ±0.5%*
 K: ±10%*

Packaging

T: Tape and Reel (4kpcs / reel)

*S for L = 1.5 ~ 5.6nH
 D for L = 1.5 ~ 5.6nH
 J for L = 6.8 ~ 220nH
 K for L = 3.3 ~ 220nH

ABRACON IS
ISO9001: 2008
CERTIFIED



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CORPORATION

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MULTILAYER CHIP CERAMIC INDUCTORS

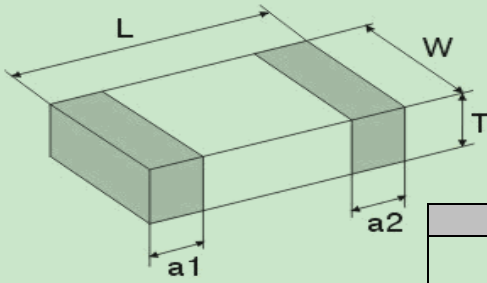


2.00 x 1.25 x 0.85mm

AIMC-0805

RoHS

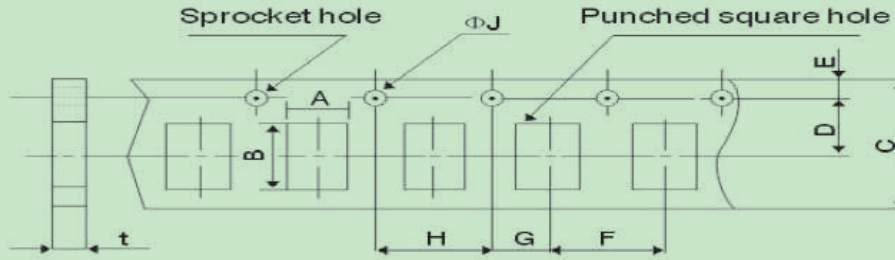
OUTLINE DRAWING:



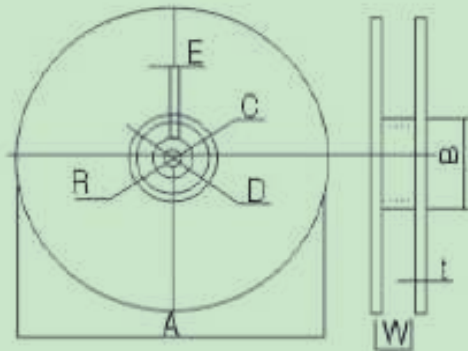
Dimension: mm [inch]

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

TAPE & REEL: T = Tape and reel 4,000pcs/reel



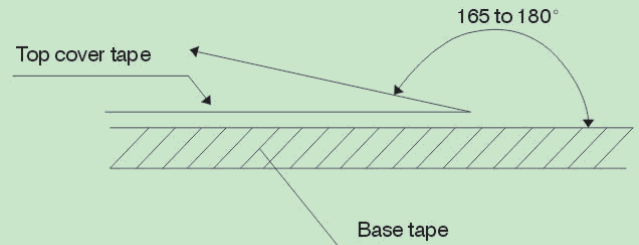
Codes	A	B	C	D	E	F	G	H	ΦJ	t(max)
AIMC-0805	1.5±0.15	2.5±0.2	8.0±0.3	3.5±0.05	1.75±0.1	4.0±0.1	2.0±0.05	4.0±0.1	1.5±0.1/-0	1.1±0.05



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