Multilayer Chip Ceramic Inductors



AIMC-0805

2.00 x 1.25 x 0.85mm
RoHS/RoHS II Compliant
MSL = 1

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

Part Identification

AIMC-0805- ☐ ☐ - ☐

Inductance Code	Tolerance	Packaging
Please refer to Electrical Spec Table	S: ±0.3nH* J: ±5%*	T: Tape and Reel (4kpcs / reel)

*S for L = 1.0 ~ 5.6nH
J for L = 6.8 ~ 120nH

ABRACON LLC

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 01-10-20

ABRACON IS ISO9001-2015 CERTIFIED

Multilayer Chip Ceramic Inductors



AIMC-0805

2.00 x 1.25 x 0.85mm
RoHS/RoHS II Compliant
MSL = 1

Electrical Specifications

Operating Temperature	Storage Temperature
-55°C ~ +125°C	-40°C ~ +85°C

Part Number	L (nH)	Tolerance	L,Q Test Freq. MHz	Q (Min.)	SRF (MHz) (Min.)	DCR (Ω) (Max)	Ir (mA) (Max)
AIMC-0805-1N0	1.0	S	100	10	10000	0.1	300
AIMC-0805-1N2	1.2	S	100	10	10000	0.1	300
AIMC-0805-1N5	1.5	S	100	10	4000	0.1	300
AIMC-0805-1N8	1.8	S	100	10	4000	0.1	300
AIMC-0805-2N2	2.2	S	100	10	4000	0.1	300
AIMC-0805-2N7	2.7	S	100	12	4000	0.1	300
AIMC-0805-3N3	3.3	S	100	12	4000	0.13	300
AIMC-0805-3N9	3.9	S	100	12	4000	0.15	300
AIMC-0805-4N7	4.7	S	100	12	3500	0.20	300
AIMC-0805-5N6	5.6	S	100	15	3200	0.23	300
AIMC-0805-6N8	6.8	J	100	15	2800	0.25	300
AIMC-0805-8N2	8.2	J	100	15	2400	0.28	300
AIMC-0805-10N	10	J	100	15	2100	0.30	300
AIMC-0805-12N	12	J	100	15	1900	0.35	300
AIMC-0805-15N	15	J	100	15	1600	0.40	300
AIMC-0805-18N	18	J	100	15	1500	0.45	300
AIMC-0805-22N	22	J	100	18	1400	0.50	300
AIMC-0805-27N	27	J	100	18	1300	0.55	300
AIMC-0805-33N	33	J	100	18	1200	0.60	300
AIMC-0805-39N	39	J	100	18	1000	0.65	300
AIMC-0805-47N	47	J	100	18	900	0.70	300
AIMC-0805-56N	56	J	100	18	800	0.75	300
AIMC-0805-68N	68	J	100	18	700	0.80	300
AIMC-0805-82N	82	J	100	18	600	0.90	300
AIMC-0805-R10	100	J	100	18	600	0.90	300
AIMC-0805-R12	120	J	50	13	500	0.95	300

Test Conditions
Ir: $\Delta T \leq 40^{\circ}C$
Unless otherwise specified
Temperature: Ambient Temperature (20±15˚C)
Humidity: Ordinary Humidity (30 to 70% RH)

ABRACON LLC
5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 01-10-20

ABRACON IS ISO9001-2015 CERTIFIED

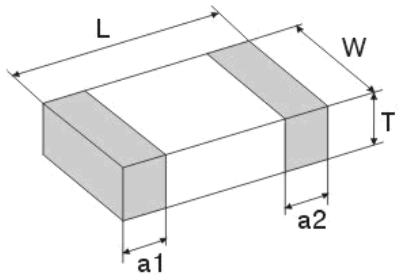
Multilayer Chip Ceramic Inductors



AIMC-0805

2.00 x 1.25 x 0.85mm
RoHS/RoHS II Compliant
MSL = 1

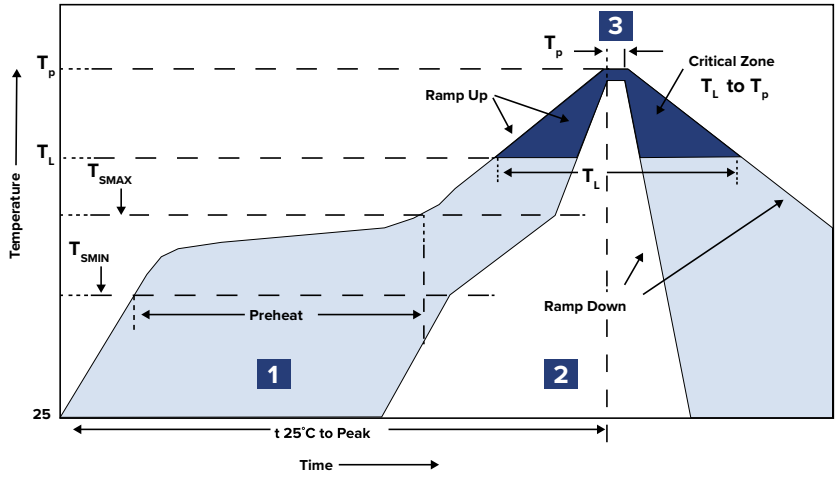
Mechanical Dimensions



Series	L	W	T	a1, a2
AIMC-0805	2.00 ± 0.20	1.25 ± 0.20	0.85 ± 0.20	0.2 ~ 0.8
	[0.079 ± 0.008]	[0.049 ± 0.008]	[0.033 ± 0.008]	[0.008 ~ 0.031]

Dimensions: mm [inch]

Reflow Profile



Zone	Description	Temperature	Time
1	Preheat / Soak	T_{SMIN} ~ T_{SMAX} 120°C ~ 180°C	50 ~ 150 sec.
2	Reflow	T_L 230°C	90 ~ 120 sec.
3	Peak heat	T_P 255°C ~ 260°C	10 sec. MAX

ABRACON LLC

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 01-10-20

ABRACON IS
ISO9001-2015
CERTIFIED

Multilayer Chip Ceramic Inductors

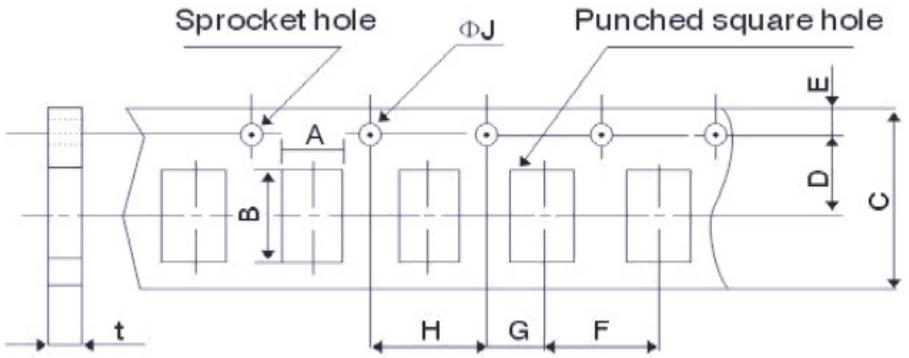


AIMC-0805

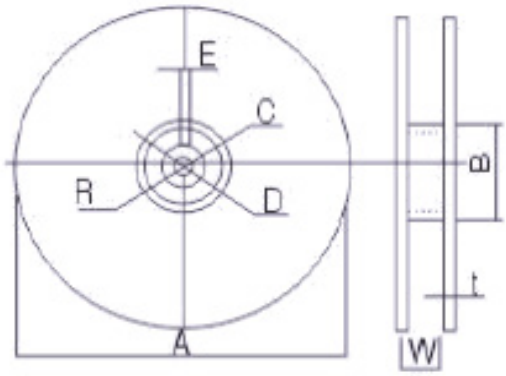
2.00 x 1.25 x 0.85mm
RoHS/RoHS II Compliant
MSL = 1

Packaging

T: 4,000pcs/reel



Codes	A	B	C	D	E	F	G	H	ΦJ	t
AIMC-0805	1.45±0.05	2.25±0.05	8.0±0.1	3.5±0.05	1.75±0.1	4.0±0.1	2.0±0.05	4.0±0.1	1.55±0.05	0.95±0.05



A	178±2
B	50min
C	13.0±0.5
D	21.0±0.8
E	2.0±0.5
W	10.0±1.5
t	1.2±0.2
R	1.0

ATTENTION: Abracon LLC'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-dependent 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 LLC is required. Please contact Abracon LLC for more information.

ABRACON LLC

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 01-10-20

ABRACON IS ISO9001-2015 CERTIFIED