

MULTILAYER CHIP CERAMIC INDUCTORS

AIMC-0402

RoHS
Compliant



1.0 x 0.5 x 0.5mm

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-0402-xxx Series
Operating temperature:	-55°C to + 125°C
Storage temperature:	-55°C to + 125°C

Part No.	L(nH)	Tolerance	L,Q Test Freq. (MHz)	Q (MIN)	SRF(MHz)	DCR(Ω)	Ir(mA)
					(min)	(max)	(max)
AIMC-0402-1N0	1.0	C, S	100	9	10000	0.08	400
AIMC-0402-1N2	1.2	C, S	100	9	10000	0.08	400
AIMC-0402-1N5	1.5	C, S	100	9	6000	0.10	400
AIMC-0402-1N8	1.8	C, S	100	9	6000	0.12	400
AIMC-0402-2N2	2.2	C, S	100	9	6000	0.12	400
AIMC-0402-2N7	2.7	C, S	100	9	6000	0.13	400
AIMC-0402-3N3	3.3	C, S	100	9	6000	0.15	400
AIMC-0402-3N9	3.9	C, S	100	9	4500	0.21	400
AIMC-0402-4N7	4.7	C, S	100	9	4500	0.21	300
AIMC-0402-5N6	5.6	C, S	100	9	4000	0.23	300
AIMC-0402-6N8	6.8	C, S	100	9	4000	0.25	300
AIMC-0402-8N2	8.2	C, S	100	9	3600	0.35	300
AIMC-0402-10N	10	J	100	9	3200	0.42	300
AIMC-0402-12N	12	J	100	9	2800	0.50	300
AIMC-0402-15N	15	J	100	9	2500	0.60	300
AIMC-0402-18N	18	J	100	9	2200	0.80	300
AIMC-0402-22N	22	J	100	9	1900	0.85	300
AIMC-0402-27N	27	J	100	9	1600	1.00	300
AIMC-0402-33N	33	J	100	9	1300	1.00	200
AIMC-0402-39N	39	J	100	9	1200	1.30	200
AIMC-0402-47N	47	J	100	9	1000	1.50	200
AIMC-0402-56N	56	J	100	9	800	1.80	200
AIMC-0402-68N	68	J	100	9	800	1.95	180
AIMC-0402-82N	82	J	100	9	600	2.10	150
AIMC-0402-R10	100	J	100	9	600	2.50	150
AIMC-0402-R12	120	J	100	9	600	2.80	150

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.

$\Delta L/L$ (initial) $\geq -5\%$ or $\Delta T \leq 20^\circ\text{C}$

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-0402- -

Inductance Code

Please refer to the
Electrical Spec Table

Tolerance

C: $\pm 0.2\text{nH}^*$
S: $\pm 0.3\text{nH}^*$
J: $\pm 5\%^*$

Packaging

T: Tape and Reel (10kpcs / reel)

*C, S for L = 1.0~8.2nH

J for L = 10~120nH

ABRACON IS
ISO 9001:2008
CERTIFIED



ABRACON
CORPORATION

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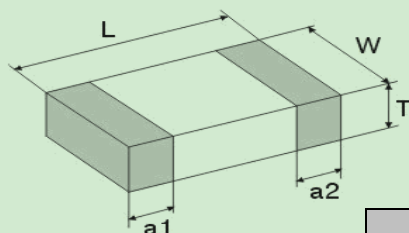
AIMC-0402

RoHS
Compliant



1.0 x 0.5 x 0.5mm

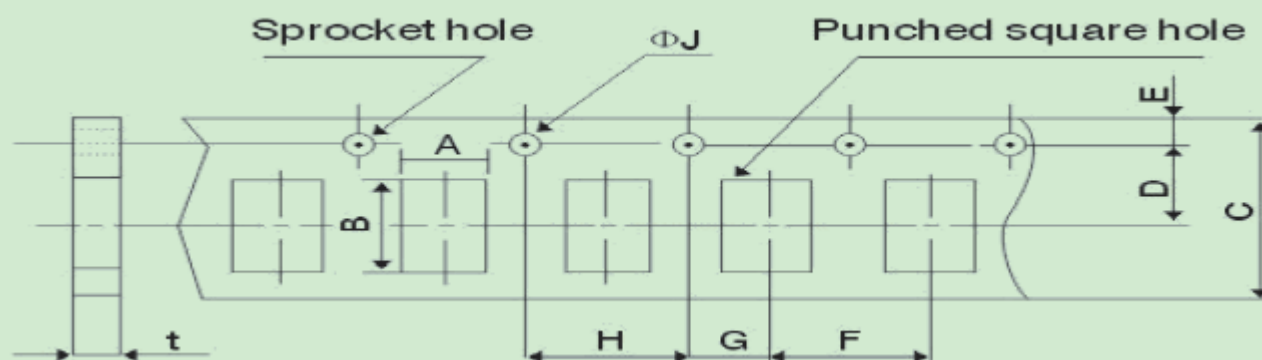
OUTLINE DRAWING:



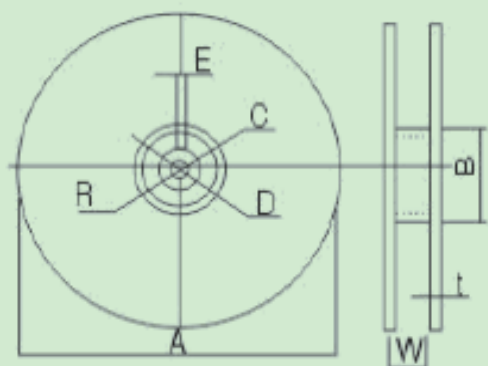
Dimensions: mm [inch]

Series	L	W	T	a1,a2
AIMC-0402	1.00±0.15	0.50±0.15	0.50±0.15	0.25±0.10
	[0.04±0.006]	[0.02±0.006]	[0.02±0.006]	[0.01±0.004]

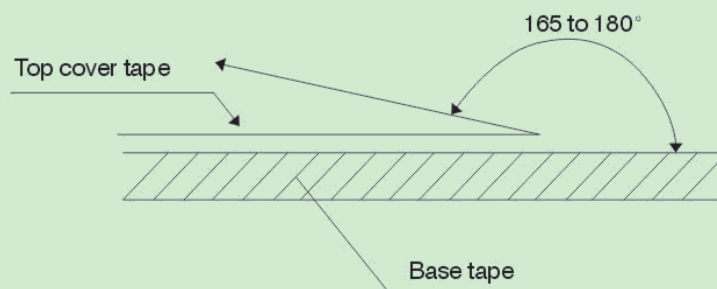
TAPE & REEL: T = Tape and reel 10,000pcs/reel



Codes	A	B	C	D	E	F	G	H	ΦJ	t(max)
AIMC-0402	0.65±0.10	1.15±0.10	8.0±0.3	3.5±0.05	1.75±0.1	2.0±0.05	2.0±0.05	4.0±0.1	1.5+0.1/-0	0.8±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



Test condition:

- 1) peel angle: 165°~180° vs. carrier tape.
- 2) peel speed: 300 mm/min±10%.

Dimension: mm

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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