

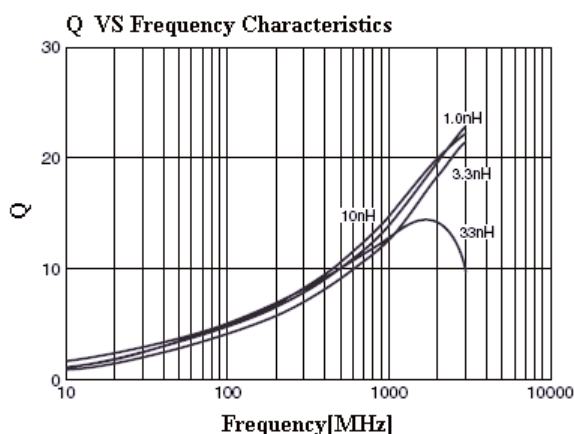
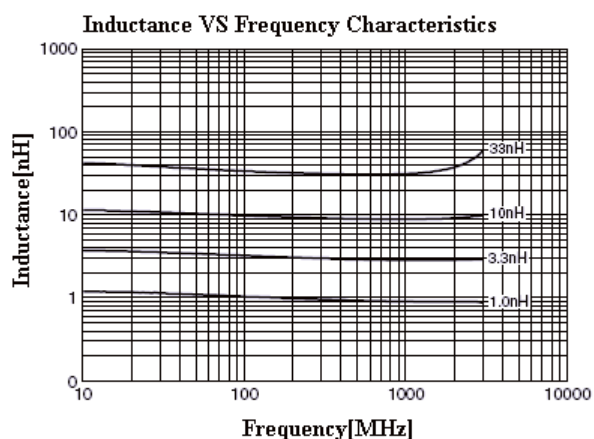
ECN/PCN No.: M1294

For Manufacturer			
Product Description: MULTILAYER CERAMIC CHIP INDUCTOR		Abracon Part Number / Part Series: AIMC-0201 Series	
Affected Revision: D		New Revision: E	
		<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> Series <input checked="" type="checkbox"/> ECN <input type="checkbox"/> Part Number <input type="checkbox"/> EOL	
		Application: <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety	

Prior to Change:

Part No.	L(nH)	Tolerance	Q (MIN @ 100MHz)	Q (MIN @ 800MHz)	Q (MIN @ 1800MHz)	L,Q Test Freq.	SRF(MHz)	DCR(Ω)	Ir(mA)
						(MHz)	(min)	(max)	(max)
AIMC-0201-1N0	1.0	S	4	12	19	100	12000	0.20	300
AIMC-0201-1N2	1.2	S	4	12	18	100	11000	0.22	300
AIMC-0201-1N5	1.5	S	4	12	18	100	11000	0.24	300
AIMC-0201-1N8	1.8	S	4	11	17	100	10000	0.27	300
AIMC-0201-2N2	2.2	S	4	12	19	100	10000	0.30	300
AIMC-0201-2N7	2.7	S	4	13	19	100	10000	0.35	300
AIMC-0201-3N3	3.3	S	4	13	19	100	10000	0.40	200
AIMC-0201-3N9	3.9	S	4	13	19	100	9000	0.45	200
AIMC-0201-4N7	4.7	S	5	13	19	100	8500	0.50	200
AIMC-0201-5N6	5.6	S	5	12	18	100	8500	0.60	200
AIMC-0201-6N8	6.8	H, J	5	13	19	100	6000	0.65	200
AIMC-0201-8N2	8.2	J	5	13	19	100	6000	0.70	200
AIMC-0201-10N	10	J	5	13	18	100	5500	0.80	200
AIMC-0201-12N	12	J	5	12	18	100	5000	1.00	150
AIMC-0201-15N	15	J	5	12	17	100	4500	1.10	150
AIMC-0201-18N	18	J	5	12	16	100	4000	1.30	100
AIMC-0201-22N	22	J	5	12	16	100	3500	1.60	100
AIMC-0201-27N	27	J	5	12	15	100	3000	1.70	100
AIMC-0201-33N	33	J	5	11	14	100	2800	1.80	100
AIMC-0201-39N	39	J	4	11	-	100	1800	3.35	60
AIMC-0201-47N	47	J	4	11	-	100	1600	3.60	50

1.1 Electrical Characteristics



1.2 Test Conditions and equipments

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

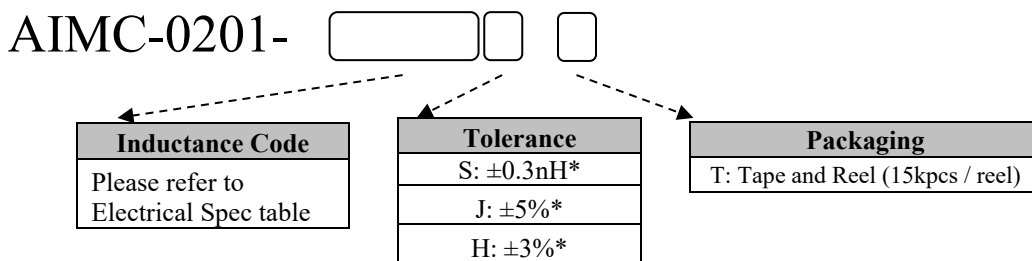
Temperature : Ordinary Temperature (5 to 35°C)

Humidity : Ordinary Humidity (25 to 85% RH)

Atmospheric Pressure : 86 to 106 kPa

2.0 MSL level: 2 (This product is packed with dry packaging)

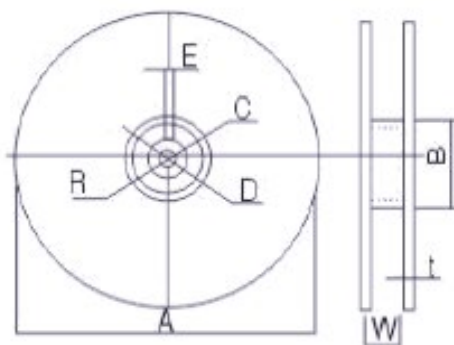
3.0 Part Number Identification



*S for L = 1.0 - 6.8nH

*J for L = 6.8 - 47nH

*H for L = 6.8nH only



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

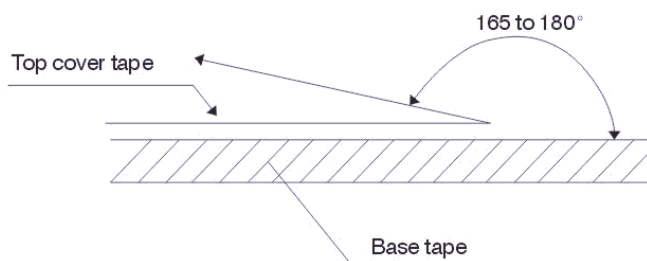
5.1 Peeling strength of cover tape

0.3 - 0.7N (30gf - 70gf)

Test condition:

1) peel angle: 165° - 180° vs. carrier tape.

2) peel speed: 300 mm/min ± 10%.



After Change:

Part No.	L(nH)	Tolerance	Q	Q	Q	L, Q Test Freq. (MHz)	SRF(MHz) (min)	DCR(Ω) (max)	Ir(mA) (max)
			(Typ. @ 500MHz)	(Typ. @ 800MHz)	(Typ. @ 1800MHz)				
AIMC-0201-0N6	0.6	B, C, S	24	32	54	500	20000	0.06	850
AIMC-0201-0N7	0.7	B, C, S	24	32	54	500	20000	0.06	800
AIMC-0201-0N8	0.8	B, C, S	24	32	54	500	18000	0.07	800
AIMC-0201-0N9	0.9	B, C, S	24	32	54	500	18000	0.07	750
AIMC-0201-1N0	1.0	B, C, S	24	32	54	500	17000	0.08	750
AIMC-0201-1N1	1.1	B, C, S	19	26	45	500	17000	0.10	750
AIMC-0201-1N2	1.2	B, C, S	19	25	43	500	17000	0.10	750
AIMC-0201-1N3	1.3	B, C, S	19	25	40	500	17000	0.12	600
AIMC-0201-1N4	1.4	B, C, S	19	24	39	500	16000	0.12	600
AIMC-0201-1N5	1.5	B, C, S	19	24	39	500	15000	0.12	600
AIMC-0201-1N6	1.6	B, C, S	19	24	39	500	15000	0.13	600
AIMC-0201-1N7	1.7	B, C, S	19	24	39	500	15000	0.15	600
AIMC-0201-1N8	1.8	B, C, S	19	24	39	500	15000	0.15	600
AIMC-0201-1N9	1.9	B, C, S	18	24	38	500	12500	0.15	600
AIMC-0201-2N0	2.0	B, C, S	17	24	38	500	12500	0.15	600
AIMC-0201-2N1	2.1	B, C, S	17	24	37	500	11000	0.15	600
AIMC-0201-2N2	2.2	B, C, S	17	24	38	500	11000	0.15	600
AIMC-0201-2N3	2.3	B, C, S	17	24	37	500	10000	0.20	500
AIMC-0201-2N4	2.4	B, C, S	17	23	36	500	10000	0.20	500
AIMC-0201-2N5	2.5	B, C, S	17	23	35	500	10000	0.20	500
AIMC-0201-2N6	2.6	B, C, S	17	22	34	500	10000	0.20	500
AIMC-0201-2N7	2.7	B, C, S	17	22	34	500	10000	0.20	500
AIMC-0201-2N8	2.8	B, C, S	17	22	34	500	9500	0.20	500
AIMC-0201-2N9	2.9	B, C, S	17	22	34	500	9500	0.20	500
AIMC-0201-3N0	3.0	B, C, S	17	22	34	500	9500	0.25	450
AIMC-0201-3N1	3.1	B, C, S	17	22	34	500	8500	0.25	450
AIMC-0201-3N2	3.2	B, C, S	17	22	33	500	8200	0.25	450
AIMC-0201-3N3	3.3	B, C, S	18	23	34	500	8100	0.25	450
AIMC-0201-3N4	3.4	B, C, S	17	23	33	500	8000	0.25	450
AIMC-0201-3N5	3.5	B, C, S	17	23	33	500	7900	0.25	450
AIMC-0201-3N6	3.6	B, C, S	16	23	33	500	7700	0.30	400
AIMC-0201-3N7	3.7	B, C, S	16	23	33	500	7600	0.30	400
AIMC-0201-3N8	3.8	B, C, S	16	22	33	500	7500	0.30	400
AIMC-0201-3N9	3.9	B, C, S	16	22	33	500	7400	0.30	400
AIMC-0201-4N3	4.3	H, J, S	16	21	32	500	6800	0.40	350
AIMC-0201-4N7	4.7	H, J, S	16	22	33	500	6200	0.40	350
AIMC-0201-5N1	5.1	H, J, S	17	22	34	500	5900	0.40	350
AIMC-0201-5N6	5.6	H, J, S	16	21	33	500	5500	0.40	350
AIMC-0201-6N2	6.2	H, J	18	23	34	500	5100	0.48	300
AIMC-0201-6N8	6.8	H, J	17	22	32	500	5500	0.50	300
AIMC-0201-7N5	7.5	H, J	16	21	31	500	4700	0.50	300
AIMC-0201-8N2	8.2	H, J	16	21	31	500	4300	0.56	250
AIMC-0201-9N1	9.1	H, J	16	20	30	500	4100	0.70	250
AIMC-0201-10N	10	H, J	16	20	28	500	3800	0.70	250
AIMC-0201-12N	12	H, J	16	20	27	500	3400	0.70	250
AIMC-0201-15N	15	H, J	15	19	24	500	2600	0.70	250
AIMC-0201-18N	18	H, J	15	19	23	500	2300	0.80	200
AIMC-0201-22N	22	H, J	15	19	22	500	2200	1.20	150
AIMC-0201-27N	27	H, J	15	19	15	500	2000	1.60	140
AIMC-0201-33N	33	H, J	14	15	8	300	2000	2.20	120
AIMC-0201-39N	39	H, J	14	15	6	300	1600	2.30	120
AIMC-0201-47N	47	H, J	14	15	-	300	1500	2.60	100
AIMC-0201-56N	56	H, J	13	13	-	300	1400	2.80	100
AIMC-0201-68N	68	H, J	13	11	-	300	1200	3.20	100
AIMC-0201-82N	82	H, J	12	10	-	300	1100	3.80	100
AIMC-0201-R10	100	H, J	12	10	-	300	1000	4.00	80
AIMC-0201-R12	120	H, J	12	8	-	300	1000	5.00	80

1.2 Test Conditions and equipments

L, Q: High Accuracy RF Impedance /Material Analyzer-E4991A+16197A

DCR: High Accuracy Milliohmmeter-HP4338B

SRF: Agilent 8719ES

Ir: DC Power Supplier, Current Meter, Thermometer. $\Delta T \leq 20^{\circ}\text{C}$

Unless otherwise specified

Temperature: Ordinary Temperature ($20 \pm 2^{\circ}\text{C}$)

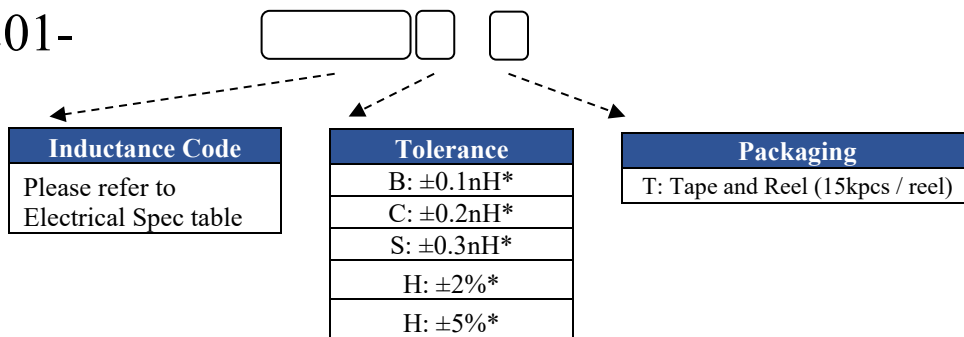
Humidity: Ordinary Humidity ($65 \pm 5\%$)

Atmospheric Pressure: 86 to 106 kPa

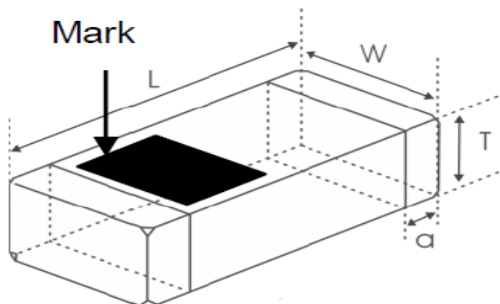
1.4 Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$, RH 70% (Max.)

4.0 Part Number Identification

AIMC-0201-



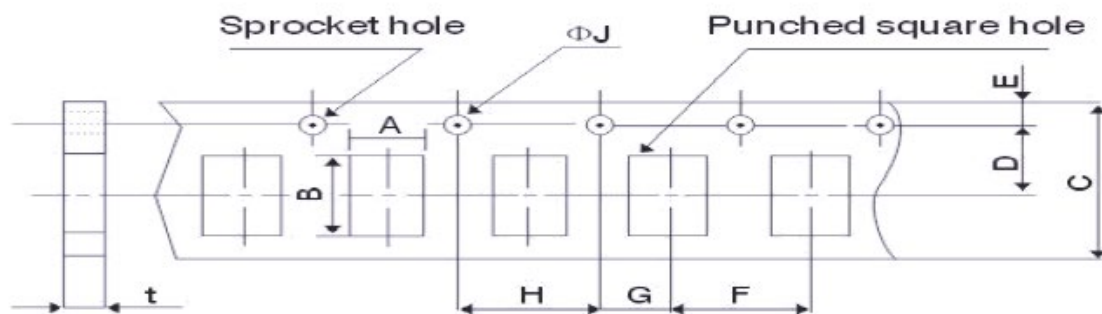
4.1 Part Number Identification



Series	L	W	T	a
AIMC-0201	0.60±0.05	0.30±0.05	0.30±0.05	0.10~0.20
	[0.024±0.002]	[0.012±0.002]	[0.012±0.002]	[0.004~0.008]

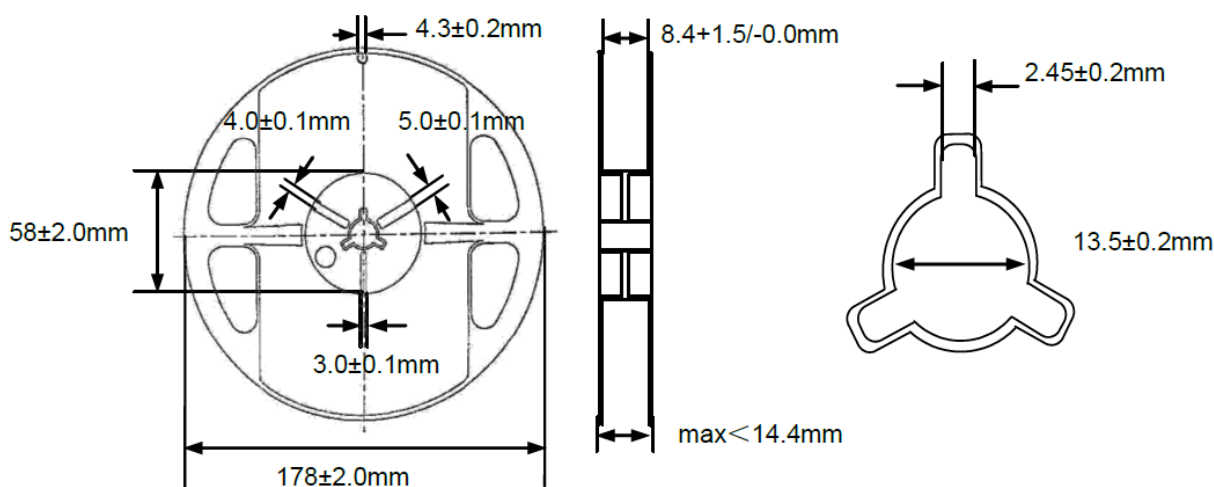
Dimension: mm [inch]

6.0 Packing
T: 15,000pcs / reel



Codes	A	B	C	D	E	F	G	H	ΦJ	t(max)
AIMC-0201	0.4±0.05	0.7±0.05	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	0.55±0.05

Dimension: mm



Cause/Reason for Change: Moving the series to a new production line.

Change Plan

Effective Date:

Additional Remarks:

Change Declaration: The change does not affect form or fit of the devices in this series. Multiple parts have been added to the series, updated [Q(typ.),SRF,DCR, Ir] of the original parts. Removed Electrical Characteristics section. Updated testing equipment/condition, Part Number Identification section, reel graphics.

Issued Date:
8/6/2021

Issued By:
Ahmed Alamin

Issued Department:
Engineering

Approval:
Syed Raza
Engineering VP

Approval:
Reuben Quintanilla
Quality Director

Approval:
Ying Huang
Purchasing Director

For Abracon EOL only		
Last Time Buy (if applicable):	Alternate Part Number / Part Series:	
Additional Approval:	Additional Approval:	Additional Approval:
Customer Approval (If Applicable)		
Qualification Status: <div style="text-align: center;"> <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted </div> <p style="font-size: small; margin-top: 5px;"><i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i></p>		
Customer Part Number:	Customer Project:	
Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		