

Automotive Multilayer Ceramic Chip Inductor



AIMC-Q0201HQ

Request Samples



Check Inventory



0.60 x 0.30 x 0.3 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- PPAP ready and supported
- TS16949 certified production lines
- AEC-Q200 (grade 1) qualified
- Ceramic base with high SRF
- Excellent DCR and current carrying characteristics.
- Multilayer monolithic construction yields high reliability
- Tight tolerance down to $\pm 0.1\text{nH}$

Applications

- Automotive applications
- Bluetooth, W-LAN, Broadband Network
- Impedance matching networks
- Filtering for high frequency communication circuits
- Video cameras, displays, and other electronic devices.

Electrical Specifications

Part Number	Inductance (nH)	Tolerance	Quality Factor min.	L/Q Freq. (MHz)	SRF (GHz) min.	DCR (Ω) max.	Rated Current (mA) max.
AIMC-Q0201HQ-0N6	0.6	B, C	14	500	20.00	0.07	850
AIMC-Q0201HQ-0N7	0.7	B, C	14	500	20.00	0.08	800
AIMC-Q0201HQ-0N8	0.8	B, C	14	500	18.00	0.08	800
AIMC-Q0201HQ-0N9	0.9	B, C	14	500	18.00	0.10	750
AIMC-Q0201HQ-1N0	1.0	B, C, S	14	500	17.00	0.10	750
AIMC-Q0201HQ-1N1	1.1	B, C, S	14	500	17.00	0.10	750
AIMC-Q0201HQ-1N2	1.2	B, C, S	14	500	17.00	0.10	750
AIMC-Q0201HQ-1N3	1.3	B, C, S	14	500	17.00	0.15	600
AIMC-Q0201HQ-1N4	1.4	B, C, S	14	500	16.00	0.15	600
AIMC-Q0201HQ-1N5	1.5	B, C, S	14	500	15.00	0.15	600
AIMC-Q0201HQ-1N6	1.6	B, C, S	14	500	15.00	0.15	600
AIMC-Q0201HQ-1N7	1.7	B, C, S	14	500	15.00	0.15	600
AIMC-Q0201HQ-1N8	1.8	B, C, S	14	500	15.00	0.15	600
AIMC-Q0201HQ-1N9	1.9	B, C, S	14	500	12.50	0.15	600
AIMC-Q0201HQ-2N0	2.0	B, C, S	14	500	12.50	0.15	600
AIMC-Q0201HQ-2N1	2.1	B, C, S	14	500	11.00	0.15	600
AIMC-Q0201HQ-2N2	2.2	B, C, S	14	500	11.00	0.15	600
AIMC-Q0201HQ-2N3	2.3	B, C, S	14	500	10.00	0.20	500
AIMC-Q0201HQ-2N4	2.4	B, C, S	14	500	10.00	0.20	500
AIMC-Q0201HQ-2N5	2.5	B, C, S	14	500	10.00	0.20	500
AIMC-Q0201HQ-2N6	2.6	B, C, S	14	500	10.00	0.20	500
AIMC-Q0201HQ-2N7	2.7	B, C, S	14	500	10.00	0.20	500
AIMC-Q0201HQ-2N8	2.8	B, C, S	14	500	9.50	0.20	500
AIMC-Q0201HQ-2N9	2.9	B, C, S	14	500	9.50	0.20	500

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Electrical Specifications (Cont'd)

Part Number	Inductance (nH)	Tolerance	Quality Factor min.	L/Q Freq. (MHz)	SRF (GHz) min.	DCR (Ω) max.	Rated Current (mA) max.
AIMC-Q0201HQ-3N0	3.0	B, C, S	14	500	9.50	0.25	450
AIMC-Q0201HQ-3N1	3.1	B, C, S	14	500	8.00	0.25	450
AIMC-Q0201HQ-3N2	3.2	B, C, S	14	500	8.00	0.25	450
AIMC-Q0201HQ-3N3	3.3	B, C, S	14	500	8.00	0.25	450
AIMC-Q0201HQ-3N4	3.4	B, C, S	14	500	7.00	0.25	450
AIMC-Q0201HQ-3N5	3.5	B, C, S	14	500	7.00	0.25	450
AIMC-Q0201HQ-3N6	3.6	B, C, S	14	500	6.00	0.30	400
AIMC-Q0201HQ-3N7	3.7	B, C, S	14	500	6.00	0.30	400
AIMC-Q0201HQ-3N8	3.8	B, C, S	14	500	6.00	0.30	400
AIMC-Q0201HQ-3N9	3.9	B, C, S	14	500	5.70	0.30	400
AIMC-Q0201HQ-4N0	4.0	B, C, S	14	500	5.30	0.40	350
AIMC-Q0201HQ-4N1	4.1	B, C, S	14	500	5.30	0.40	350
AIMC-Q0201HQ-4N2	4.2	B, C, S	14	500	5.30	0.40	350
AIMC-Q0201HQ-4N3	4.3	H, J, S	14	500	5.30	0.40	350
AIMC-Q0201HQ-4N7	4.7	H, J, S	14	500	4.40	0.40	350
AIMC-Q0201HQ-5N1	5.1	H, J, S	14	500	4.20	0.40	350
AIMC-Q0201HQ-5N6	5.6	H, J, S	14	500	4.00	0.40	350
AIMC-Q0201HQ-6N2	6.2	H, J	14	500	4.00	0.60	300
AIMC-Q0201HQ-6N8	6.8	H, J	14	500	3.90	0.60	300
AIMC-Q0201HQ-7N5	7.5	H, J	14	500	3.70	0.60	300
AIMC-Q0201HQ-8N2	8.2	H, J	14	500	3.60	0.70	250
AIMC-Q0201HQ-9N1	9.1	H, J	14	500	3.30	0.70	250
AIMC-Q0201HQ-10N	10	H, J	14	500	3.20	0.70	250
AIMC-Q0201HQ-11N	11	H, J	14	500	2.90	0.80	250
AIMC-Q0201HQ-12N	12	H, J	12	500	2.90	0.70	250
AIMC-Q0201HQ-13N	13	H, J	12	500	2.60	0.80	250
AIMC-Q0201HQ-15N	15	H, J	12	500	2.60	0.70	250
AIMC-Q0201HQ-16N	16	H, J	12	500	2.20	0.95	200

Test Conditions and equipment

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

DCR: High Accuracy Milliohmmeter Agilent 4338B

Rated Current: DC Power Supplier, Current Meter, Thermometer. $\Delta T \leq 25^{\circ}\text{C}$

Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including self-temperature rise)

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

AIMC-Q0201HQ is AEC-Q200 qualified

AIMC-Q0201HQ Series is RoHS Compliant and Pb free



5101 Hidden Creek Ln Spicewood TX 78669
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RoHS/RoHS II Compliant
MSL Level = 1

Part Identification

AIMC-Q0201HQ- -

Inductance Code

Please refer to
Electrical Spec table

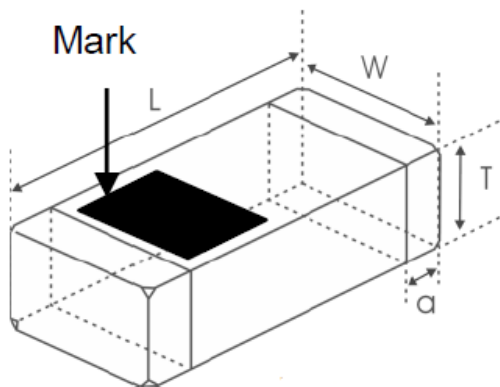
Tolerance

B: $\pm 0.1\text{nH}$
C: $\pm 0.2\text{nH}$
S: $\pm 0.3\text{nH}$
H: $\pm 3\%$
J: $\pm 5\%$

Packaging

T: Tape and Reel (15kpcs / reel)

Mechanical Specifications



Series	L	W	T	a
AIMC-Q0201HQ	0.60 $\pm$ 0.02	0.30 $\pm$ 0.03	0.30 $\pm$ 0.03	0.10~0.20
	[0.024 $\pm$ 0.001]	[0.012 $\pm$ 0.001]	[0.012 $\pm$ 0.001]	[0.004~0.008]

Dimension: mm [inch]

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AIMC-Q0201HQ

Request Samples

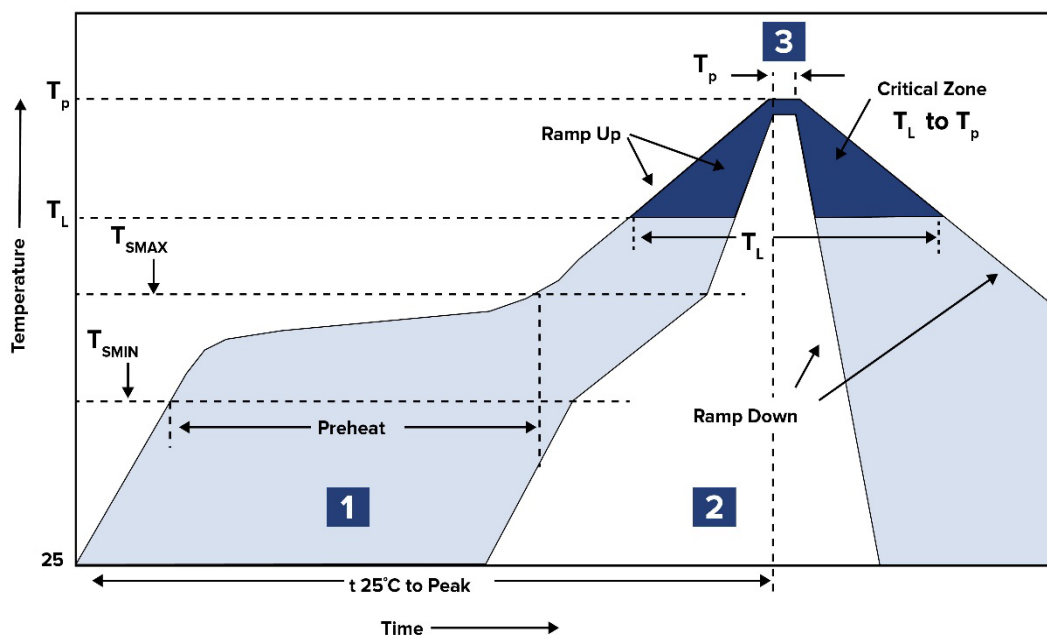


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MSL Level = 1

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T _{SMIN} ~ T _{SMAX} 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T _L 217°C	60 ~ 150 sec.
3	Peak heat	T _P 260°C	30 sec. MAX

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AIMC-Q0201HQ

Request Samples



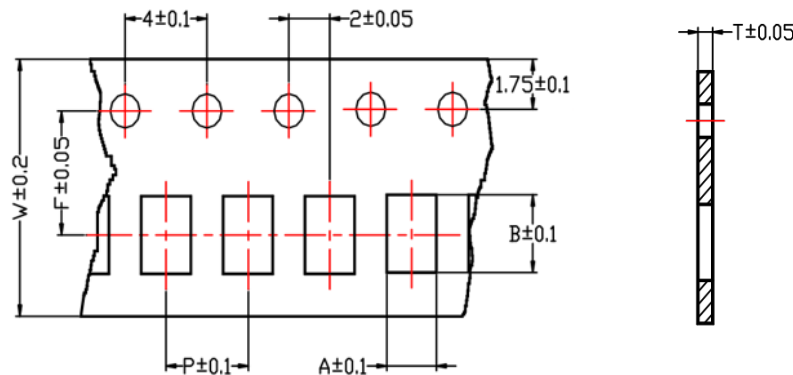
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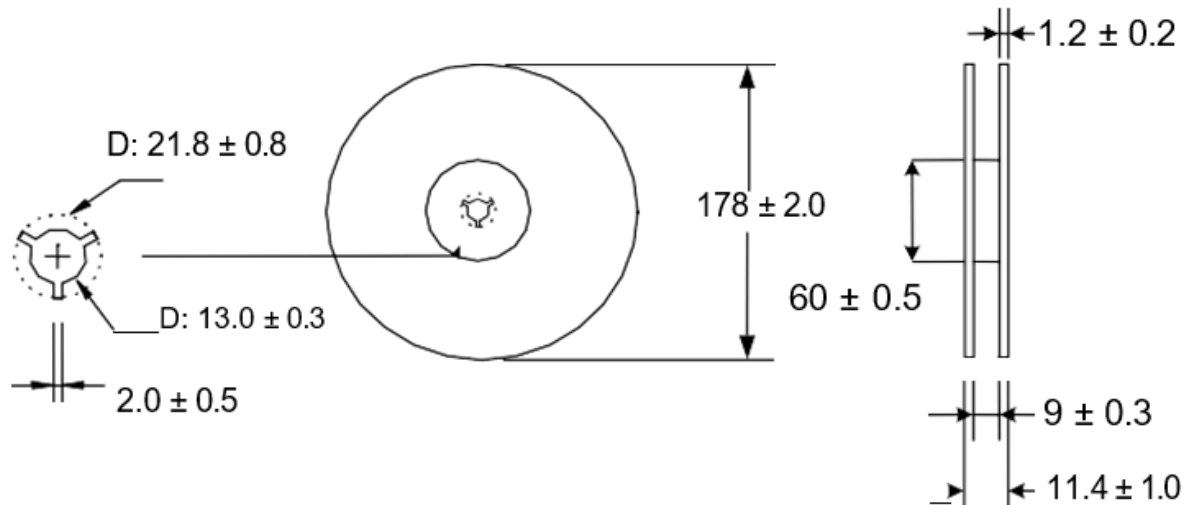
0.60 x 0.30 x 0.3 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

Tape & Reel: 15,000 pcs/reel



Codes	A	B	T	W	P	F
AIMC-Q0201HQ	0.36	0.66	0.42	8.0	2.0	3.5



Dimension: mm

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5101 Hidden Creek Ln Spicewood TX 78669
 Phone: 512-371-6159 | Fax: 512-351-8858
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