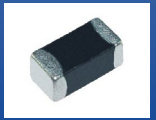


Automotive Ferrite Chip Beads



AFBC-Q3211

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3.20 x 1.60 x 1.10 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- AEC-Q200 Qualified
- Operating Temperature: -55 ~ +150°C
- Wide range impedance
- Monolithic inorganic material construction
- Excellent heat resistance
- Current rating up to 3A

Applications

- Electronic control Units (ECUs)
- Battery Management Systems (BMS)
- Powertrain system
- DC/AC Converters
- Industrial connectivity (IIoT)

Electrical Specifications

Part Number	Impedance	DC Resistance	Rated Current
Units	$\Omega \pm 25\%$	Ω Max.	mA Max.
Symbol	Z	R _{DC}	I _R
AFBC-Q3211-300-T	30	0.04	3000
AFBC-Q3211-500-T	50	0.04	3000
AFBC-Q3211-800-T	80	0.04	3000
AFBC-Q3211-121-T	120	0.10	2000
AFBC-Q3211-151-T	150	0.10	2000
AFBC-Q3211-301-T	300	0.20	1000
AFBC-Q3211-471-T	470	0.20	1000
AFBC-Q3211-501-T	500	0.04	3000
AFBC-Q3211-601-T	600	0.10	2000

Test Conditions and Equipment

Impedance Test Frequency: 100MHz

I_R: Temperature Rise: 40°C Max. At Rated Current $\geq 1A$.

Operating Temperature: -55°C to +150°C (Including Self-Temperature rise)

Storage Temperature: <+40°C and RH 60% (Max).

AFBC-Q3211 is RoHS Compliant and Pb free

Automotive Ferrite Chip Beads



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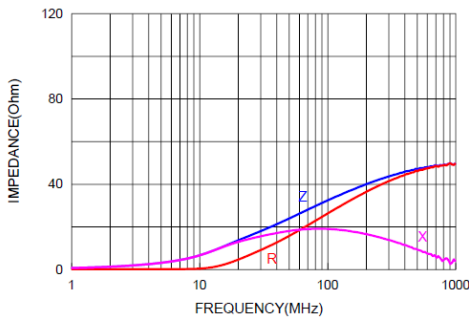
Check Inventory



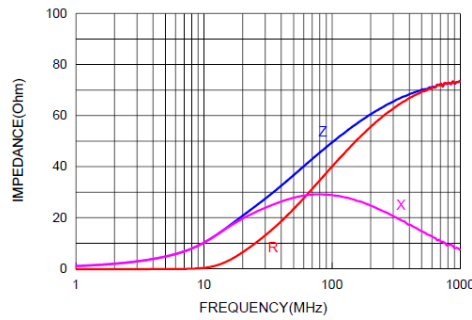
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RoHS/RoHS II Compliant
MSL Level = 1

Electrical Specifications (Cont'd)

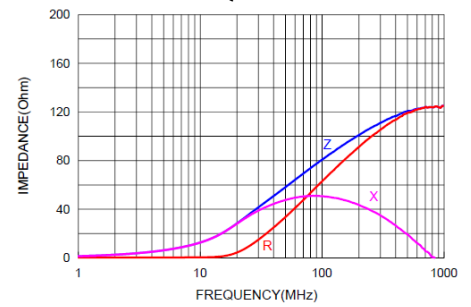
AFBC-Q3211-300



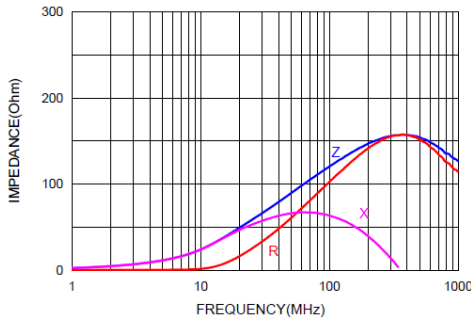
AFBC-Q3211-500



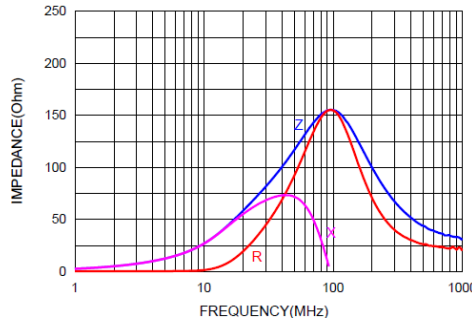
AFBC-Q3211-800



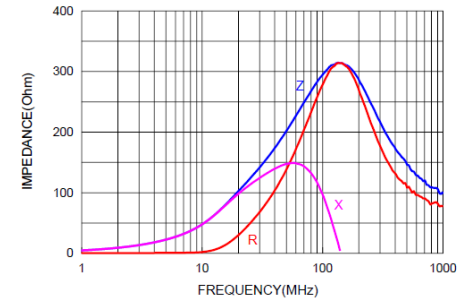
AFBC-Q3211-121



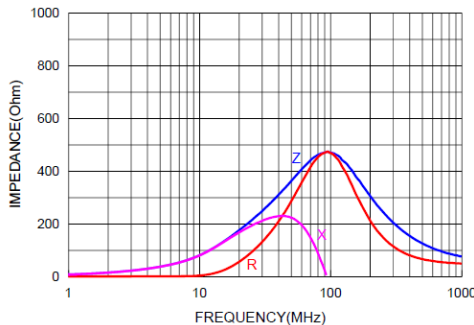
AFBC-Q3211-151



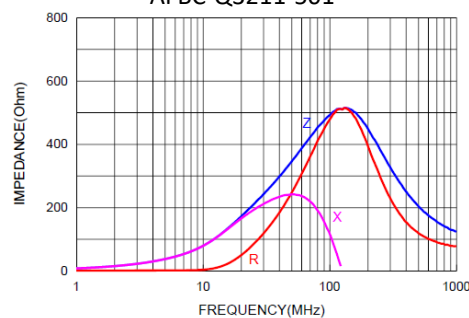
AFBC-Q3211-301



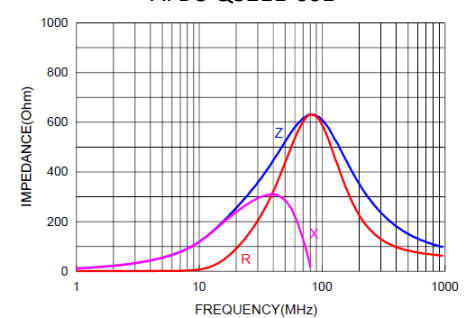
AFBC-Q3211-471



AFBC-Q3211-501



AFBC-Q3211-601



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3.20 x 1.60 x 1.10 mm
RoHS/RoHS II Compliant
MSL Level = 1

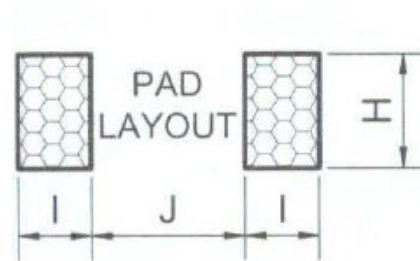
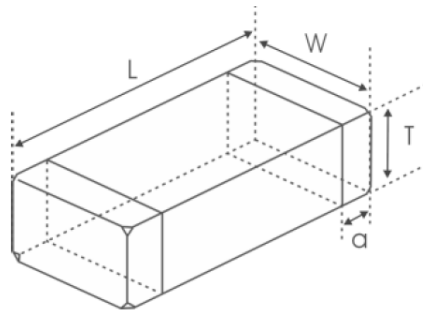
Part Number Identification

AFBC - Q3211 - -

Impedance Code
 Please refer to the Electrical Specification table

Packaging
 T: Tape and Reel
 (3kpcs / reel)

Mechanical Specifications



L	W	T	a	H	I	J
3.20±0.20	1.60±0.20	1.10±0.20	0.50±0.30	1.80 Ref.	1.05 Ref.	2.20 Ref.

Dimension: mm

Automotive Ferrite Chip Beads



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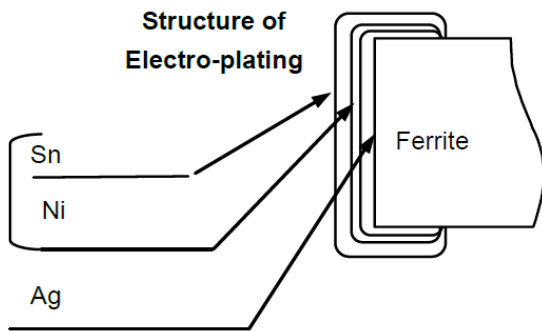


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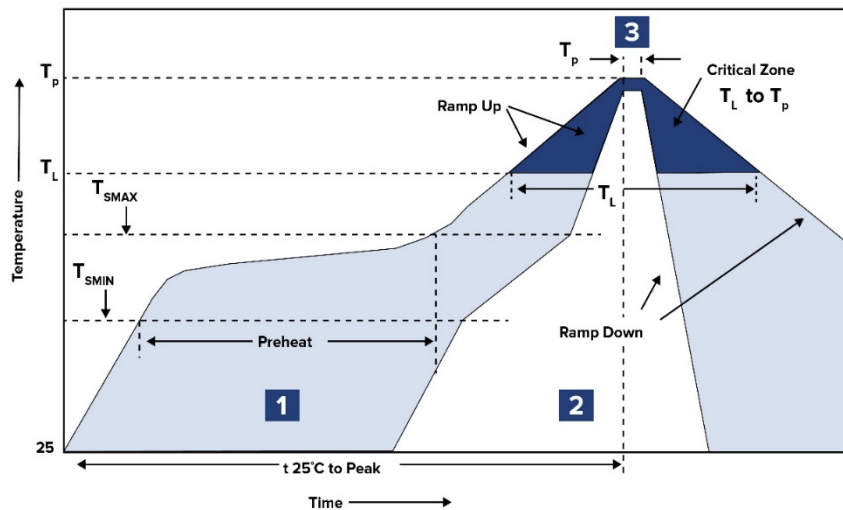
3.20 x 1.60 x 1.10 mm
RoHS/RoHS II Compliant
 MSL Level = 1

Materials



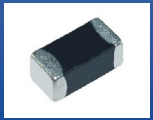
	Structure Description
1	Ferrite for Beads
2	Internal Terminal Electrode: Ag (100%)
3	Electro-plating: Ni (100%)
4	External Electro-plating: Sn (100%)

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T_L 245°C	20 ~ 40 sec.
3	Peak heat	T_P 260°C	10 sec. MAX

Automotive Ferrite Chip Beads



AFBC-Q3211

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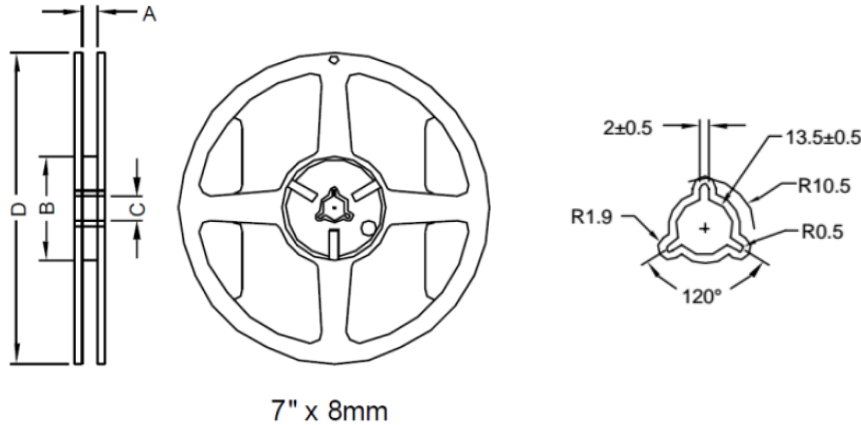
Check Inventory



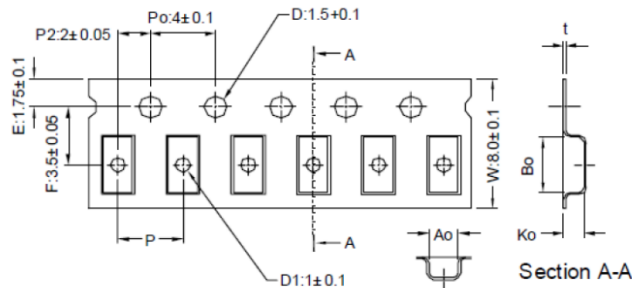
3.20 x 1.60 x 1.10 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

T= Tape and reel (3,000 pcs/reel)



Type	A	B	C	D
7"x8mm	9.0 ± 0.5	60.0 ± 2.0	13.5 ± 0.5	178.0 ± 2.0



Series	Bo	Ao	Ko	P
AFBC-Q3211	3.35 ± 0.1	1.75 ± 0.1	1.25 ± 0.1	4.00 ± 0.10

Dimension: mm

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