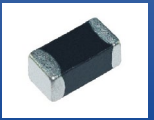


Automotive Ferrite Chip Beads



AFBC-Q0402

Request Samples



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1.00 x 0.5 x 0.5 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

Applications

- Electronic control Units (ECUs)
- RF transceiver modules
- Antennas
- Infotainment system
- ADAS
- 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-Q0402-300	30	0.20	300
AFBC-Q0402-600	60	0.25	300
AFBC-Q0402-121	120	0.30	100
AFBC-Q0402-151	150	0.30	100
AFBC-Q0402-221	220	0.40	100
AFBC-Q0402-301	300	0.50	100
AFBC-Q0402-471	470	0.65	100
AFBC-Q0402-601	600	0.80	80
AFBC-Q0402-102	1000	1.20	50

Test Conditions and Equipment

Impedance Test Frequency: 100MHz

IR: Rated current applied when the chip surface temperature rise just 20°C against chip surface temperature.

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

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

AFBC-Q0402 is RoHS Compliant and Pb free

Automotive Ferrite Chip Beads



AFBC-Q0402

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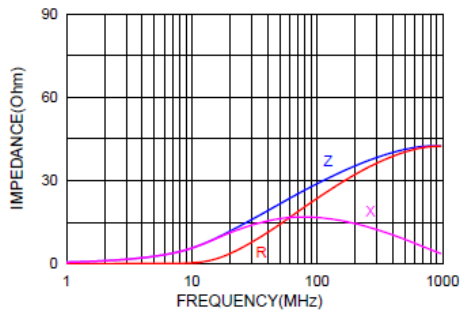
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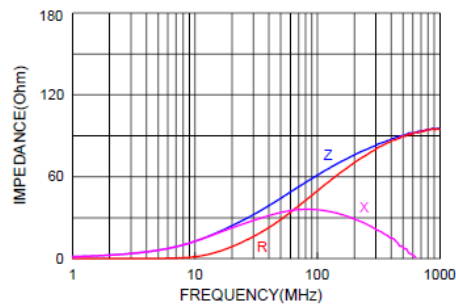
1.00 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Electrical Specifications (Cont'd)

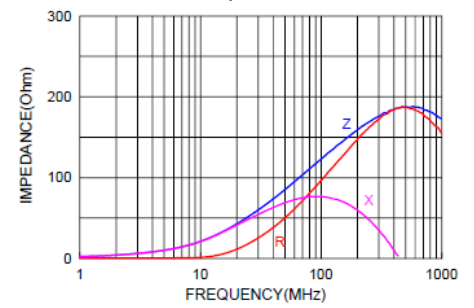
AFBC-Q0402-300



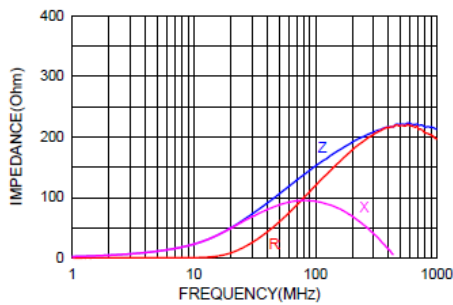
AFBC-Q0402-600



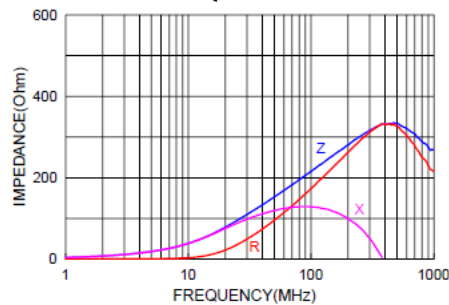
AFBC-Q0402-121



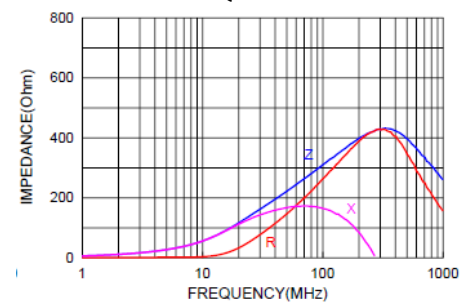
AFBC-Q0402-151



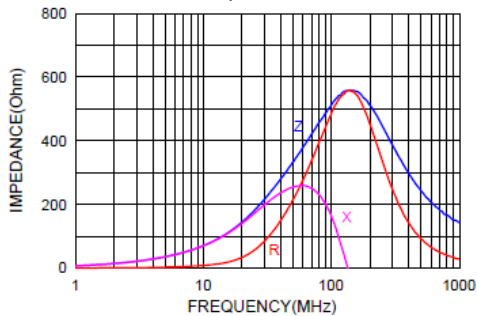
AFBC-Q0402-221



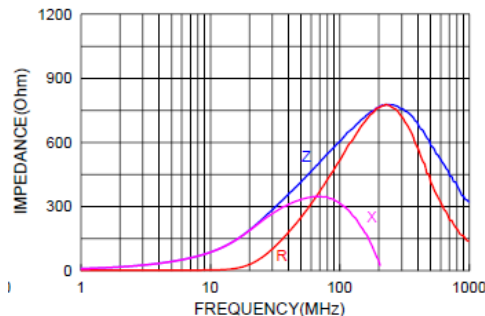
AFBC-Q0402-301



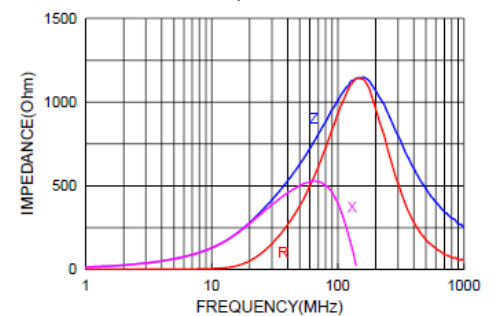
AFBC-Q0402-471



AFBC-Q0402-601



AFBC-Q0402-102

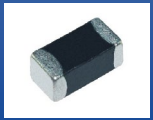


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Automotive Ferrite Chip Beads



AFBC-Q0402

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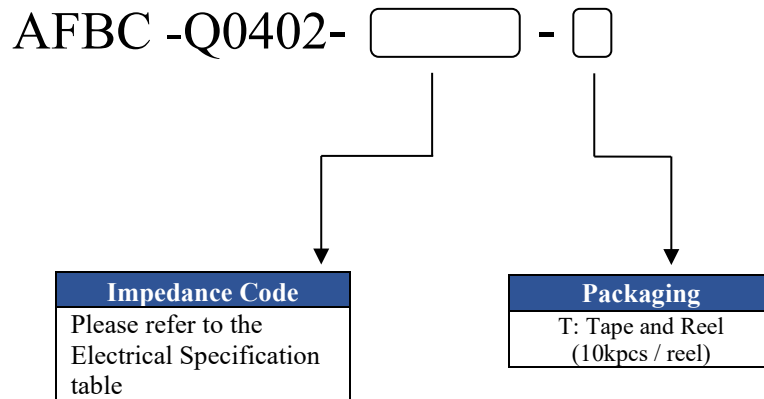


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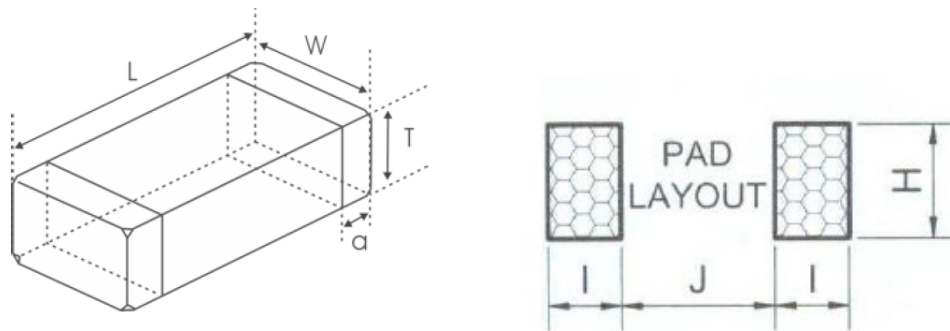


1.00 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Part Number Identification



Mechanical Specifications



L	W	T	a	H	I	J
1.00±0.10	0.50±0.10	0.50±0.10	0.25±0.10	0.6 Ref.	0.50 Ref.	0.40 Ref.

Dimension: mm

Automotive Ferrite Chip Beads



AFBC-Q0402

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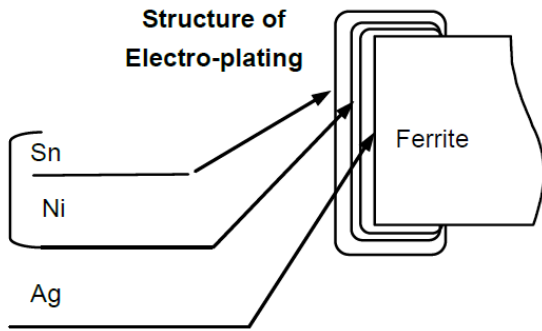


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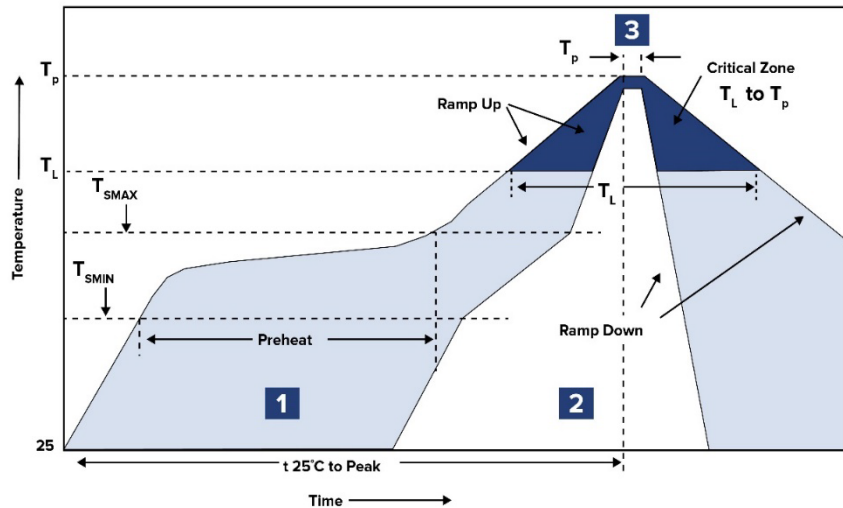
1.00 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

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-Q0402

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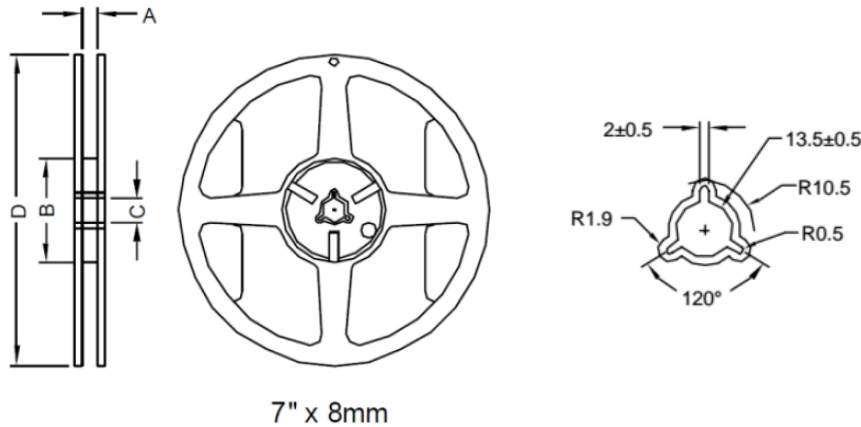
Check Inventory



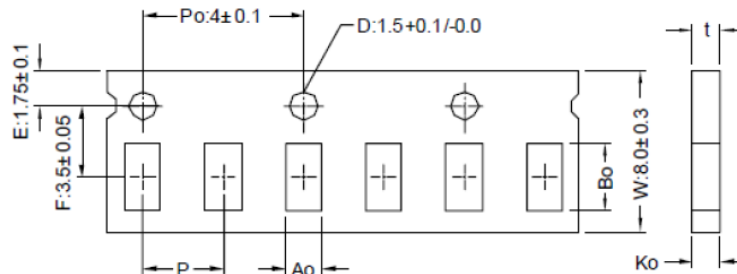
1.00 x 0.5 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

T= Tape and reel (10,000 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-Q0402	1.12 ± 0.03	0.62 ± 0.03	0.60 ± 0.03	2.0 ± 0.05

Dimension: mm

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