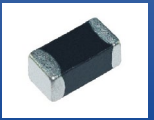


Automotive Ferrite Chip Beads



AFBC-Q0805G

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2.00 x 1.25 x 1.25 (0.85) 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	Thickness size
Units	$\Omega \pm 25\%$	Ω Max.	mA Max.	mm
Symbol	Z	R _{DC}	I _R	T
AFBC-Q0805G-300	30	0.20	700	0.85 ± 0.20
AFBC-Q0805G-600	60	0.20	700	0.85 ± 0.20
AFBC-Q0805G-121	120	0.25	600	0.85 ± 0.20
AFBC-Q0805G-151	150	0.25	600	0.85 ± 0.20
AFBC-Q0805G-221	220	0.30	400	0.85 ± 0.20
AFBC-Q0805G-301	300	0.35	400	0.85 ± 0.20
AFBC-Q0805G-471	470	0.40	400	1.25 ± 0.20
AFBC-Q0805G-601	600	0.45	300	1.25 ± 0.20
AFBC-Q0805G-102	1000	0.50	200	1.25 ± 0.20

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-Q0805G is RoHS Compliant and Pb free

Automotive Ferrite Chip Beads



AFBC-Q0805G

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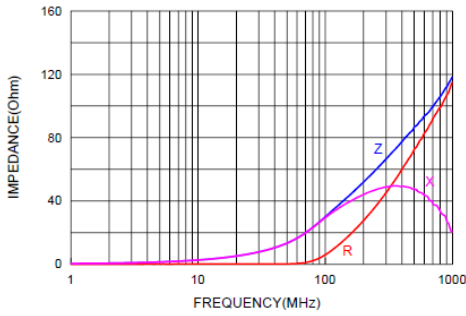
Check Inventory



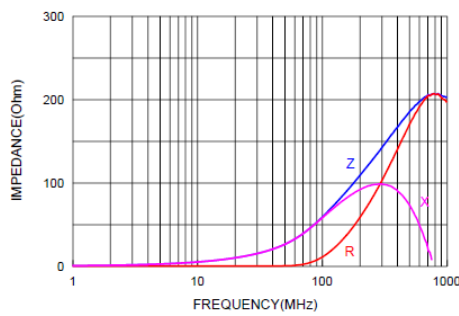
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RoHS/RoHS II Compliant
 MSL Level = 1

Electrical Specifications (Cont'd)

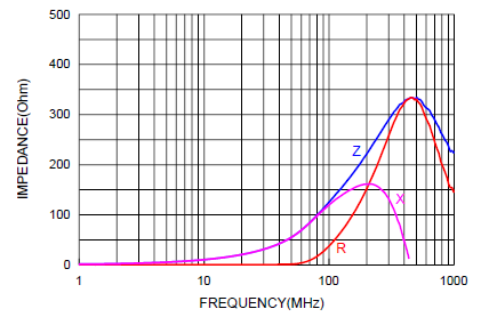
AFBC-Q0805G-300



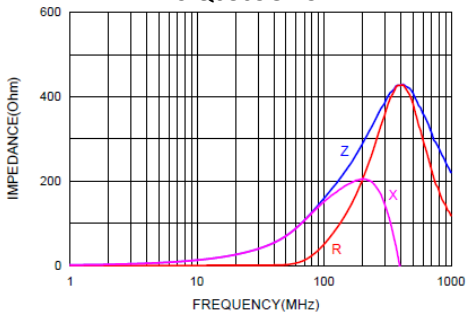
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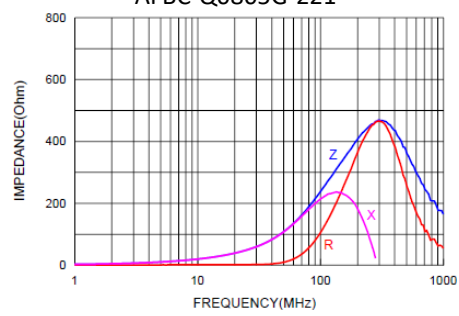
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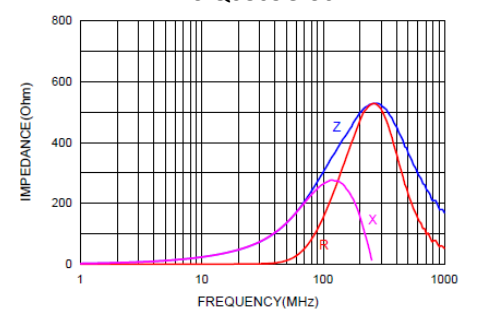
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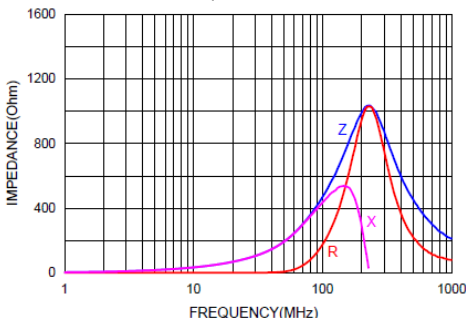
AFBC-Q0805G-221



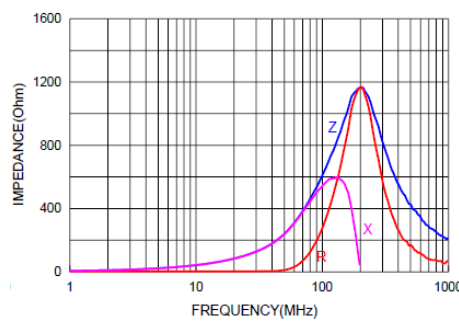
AFBC-Q0805G-301



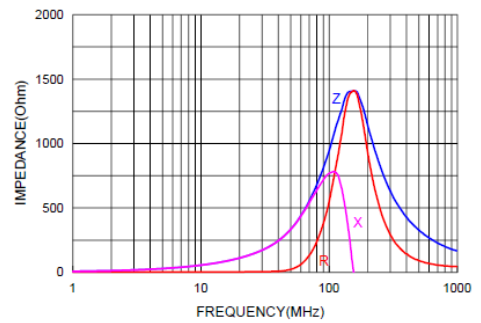
AFBC-Q0805G-471



AFBC-Q0805G-601



AFBC-Q0805G-102

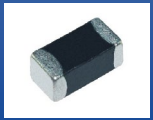


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RoHS/RoHS II Compliant
 MSL Level = 1

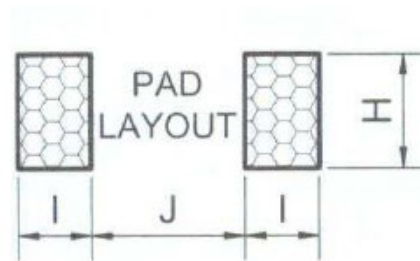
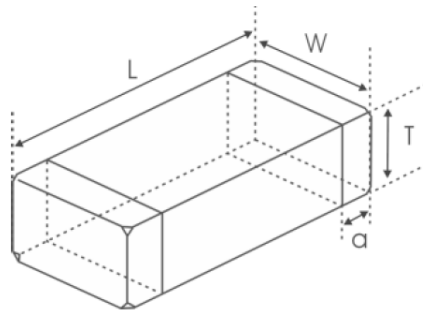
Part Number Identification

AFBC-Q0805G - -

Impedance Code
 Please refer to the Electrical Specification table

Packaging
 T: Tape and Reel
 Refer to the packaging section for pcs/reel.

Mechanical Specifications



L	W	T	a	H	I	J
2.00±0.20	1.25±0.20	Refer to specs table	0.5±0.30	1.45 Ref.	1.05 Ref.	1.00 Ref.

Dimension: mm



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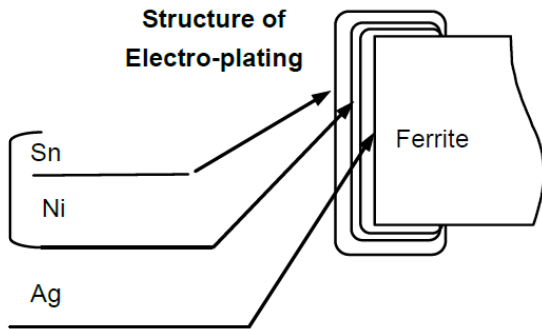


Check Inventory



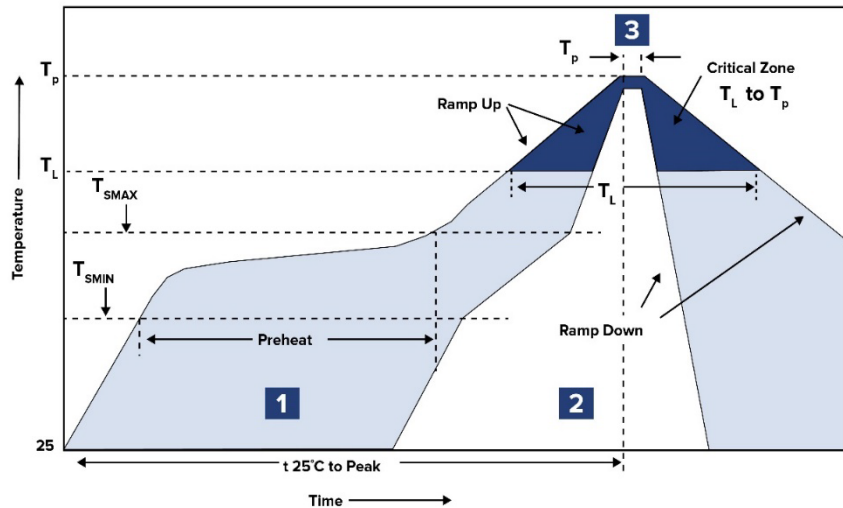
2.00 x 1.25 x 1.25 (0.85) mm
RoHS/RoHS II Compliant
 MSL Level = 1

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-Q0805G

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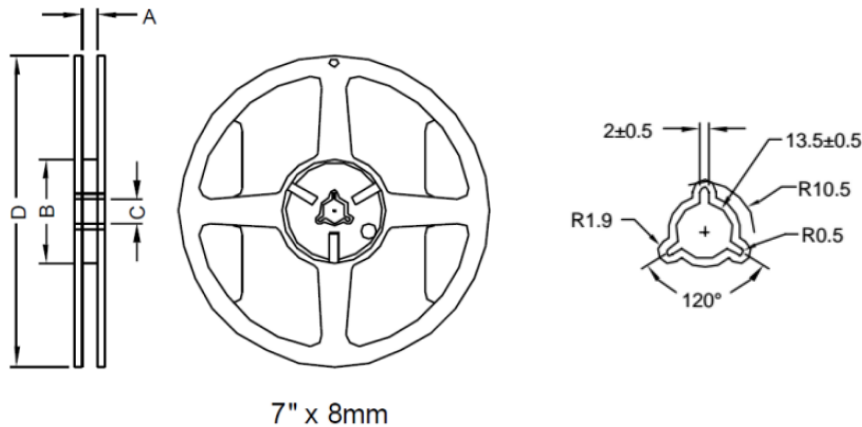
Packaging

T= Tape and reel

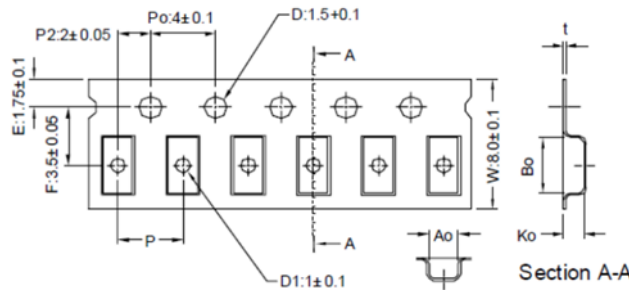
For parts where:

$Z < 470\Omega$, each reel contains 4K pcs

$Z \geq 470\Omega$, each reel contains 2K pcs



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 ¹	P
AFBC-Q0805G	2.10 ± 0.10	1.30 ± 0.10	0.95 ± 0.05	4.00 ± 0.10

¹: For parts with thickness=1.25 ± 0.20, Ko= 1.28± 0.10

Dimension: mm

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