

AFBC-Q3211

Request Samples

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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: $-55 \sim +150$ °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 ≥ 1 A.

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



ABRACON IS ISO9001-2015 CERTIFIED



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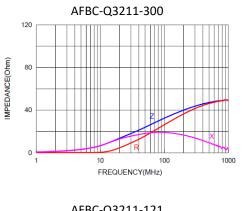


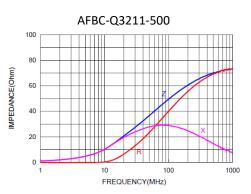
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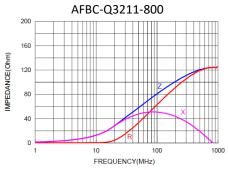


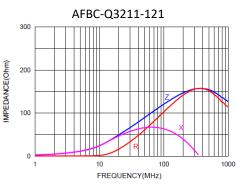
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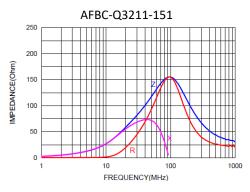
Electrical Specifications (Cont'd)

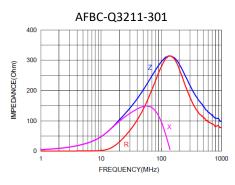


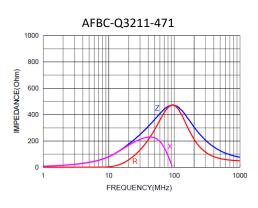


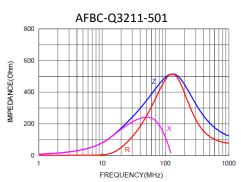


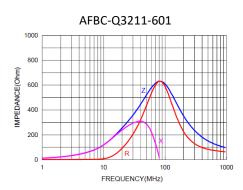
















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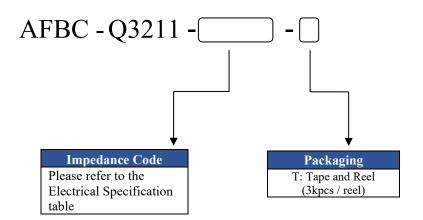


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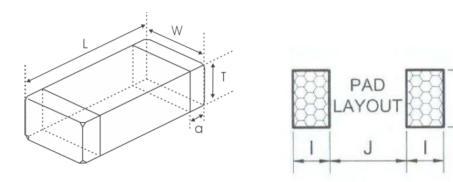


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Part Number Identification



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





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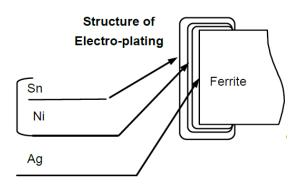


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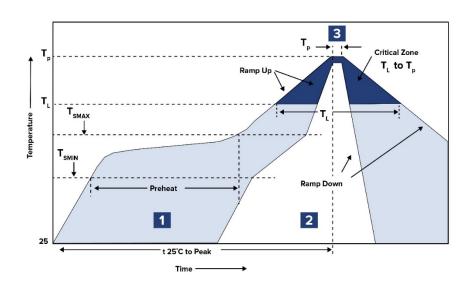
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Materials



	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	$T_{SMIN} \sim T_{SMAX} \\ 150 ^{\circ} C \sim 200 ^{\circ} C$	60 ~ 180 sec.
2	Reflow	T _L 245°C	$20 \sim 40$ sec.
3	Peak heat	Т _Р 260°С	10 sec. MAX





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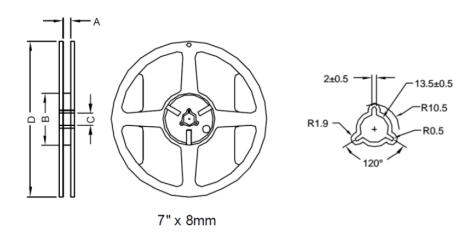
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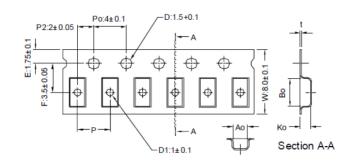
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Packaging

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



Type	A	В	С	D
7"x8mm	9.0 ± 0.5	60.0 ± 2.0	13.5 ± 0.5	178.0 ± 2.0



Series	Во	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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