

#### 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:  $-55 \sim +150$ °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  $\ge 1$ 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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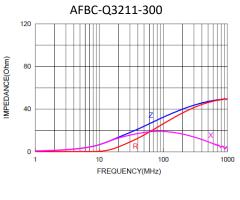


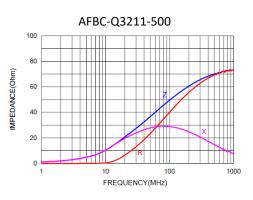
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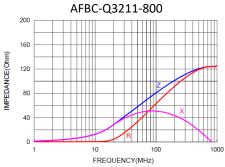


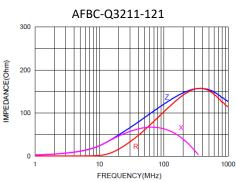
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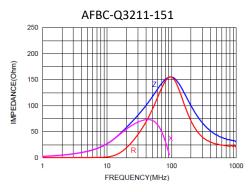
## **Electrical Specifications (Cont'd)**

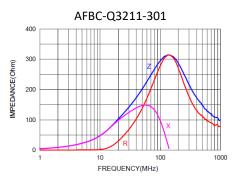


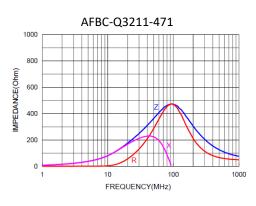


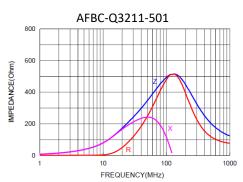


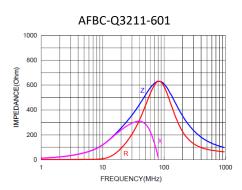
















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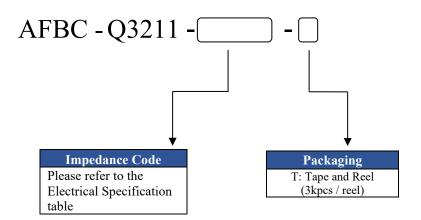


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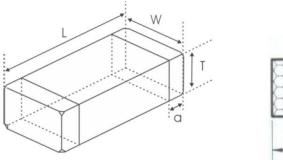


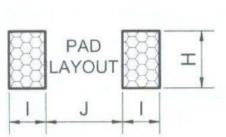
3.20 x 1.60 x 1.10 mm **RoHS/RoHS II Compliant** MSL Level = 1

## **Part Number Identification**



## **Mechanical Specifications**





$\mathbf{L}$	$\mathbf{W}$	T	a	H	I	J
3.20±0.20	1.60±0.20	$1.10\pm0.20$	$0.50\pm0.30$	1.80 Ref.	1.05 Ref.	2.20 Ref.

**Dimension: mm** 





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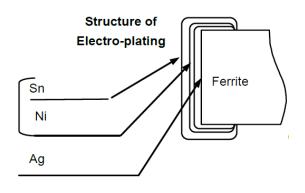


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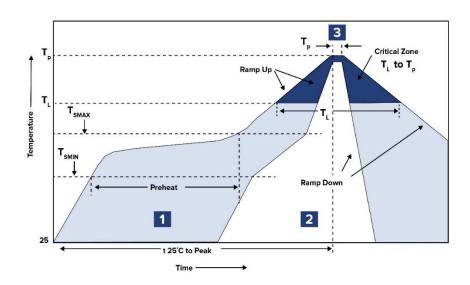
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#### Materials



	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 <sub>L</sub> 245°C	$20 \sim 40$ sec.
3	Peak heat	Т <sub>Р</sub> 260°С	10 sec. MAX





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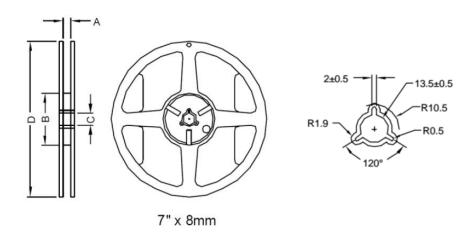
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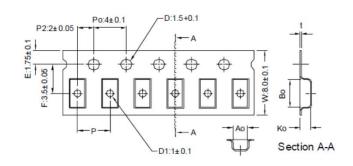
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### **Packaging**

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



Type	A	В	C	D
7"x8mm	$9.0 \pm 0.5$	$60.0 \pm 2.0$	$13.5 \pm 0.5$	$178.0\pm2.0$



Series	Во	Ao	Ko	P
AFBC-Q3211	$3.35 \pm 0.1$	$1.75 \pm 0.1$	$1.25 \pm 0.1$	$4.00 \pm 0.10$

**Dimension: mm** 

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