

AFBC-Q4515

Request Samples



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4.50 x 1.60 x 1.60 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 6A

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-Q4515-600	60	0.01	6000
AFBC-Q4515-800	80	0.04	3000

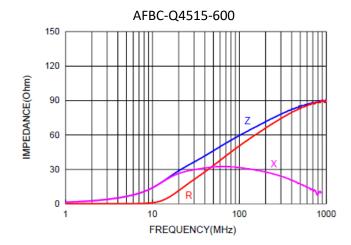
Test Conditions and Equipment

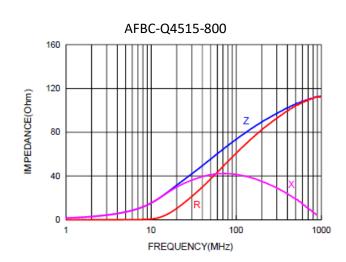
Impedance Test Frequency: 60mV, 100MHz

 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-Q4515 is RoHS Compliant and Pb free









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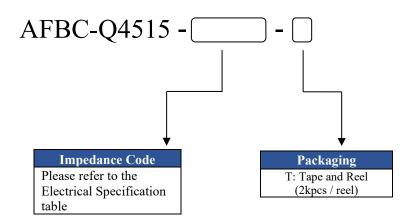


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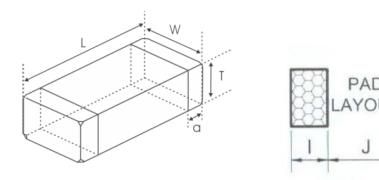


4.50 x 1.60 x 1.60 mm **RoHS/RoHS II Compliant** MSL Level = 1

Part Number Identification



Mechanical Specifications



\mathbf{L}	W	T	a	H	I	J
4.50±0.20	1.60±0.20	1.60 ± 0.20	0.50 ± 0.30	1.80 Ref.	1.05 Ref.	3.30 Ref.

Dimension: mm





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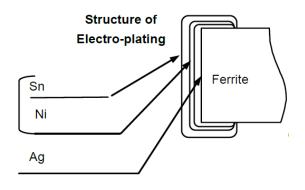


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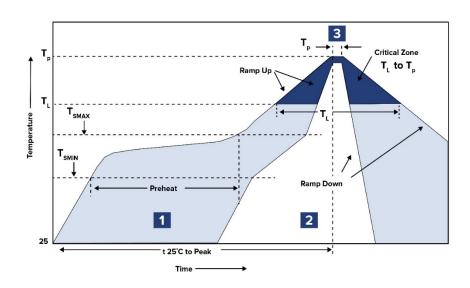
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Materials



	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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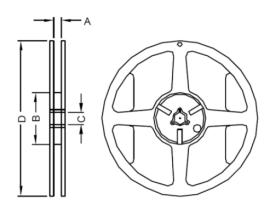
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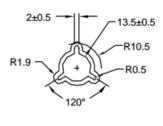


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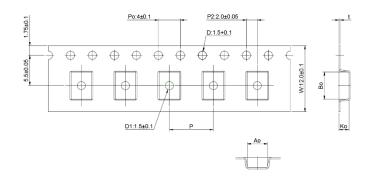
Packaging

T= Tape and reel (2,000 pcs/reel)





Type	A	В	С	D
7"x12mm	13.5 ± 0.5	60.0 ± 2.0	13.5 ± 0.5	178.0 ± 2.0



Series	Во	Ao	Ko	P
AFBC-Q4515	4.70 ± 0.1	1.75 ± 0.1	1.75 ± 0.1	8.00 ± 0.10

Dimension: mm

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