

**Chip Bead ABBK Series**

**Automotive  
AEC-Q200**

RoHS Compliant  
Halogen Free  
REACH Compliant



Noise  
Suppression

Shield

Multilayer

Ferrite

General  
Signal line

**Part Numbering**

A	BBK	00	060303	400	Y	00
Grade	Series Name	Control Code	Dimensions Code (mm)	Impedance (Ω)	Tolerance	Internal Code
			160808 1.6x0.8x0.8	300 30	Y ±25%	
			201209 2.0x1.25x0.9	121 120		
			321611 3.2x1.6x1.1	102 1000		

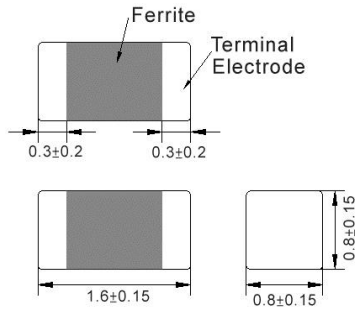
This specification applies to Multilayer Chip ferrite Bead for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

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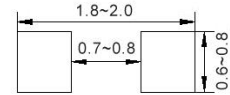
ABBK00160808 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

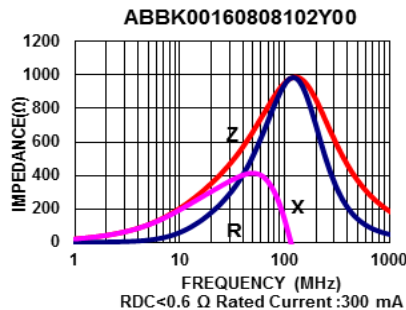
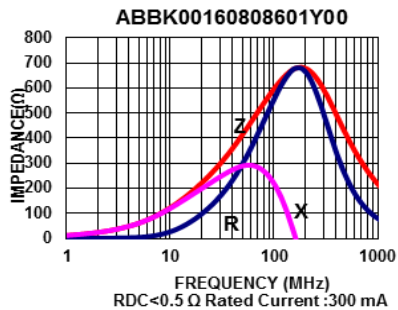
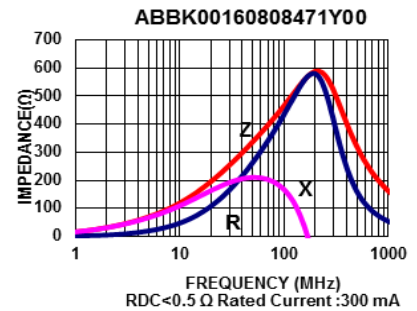
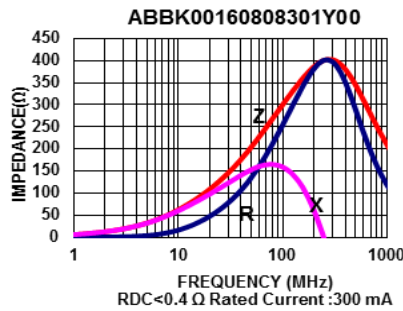
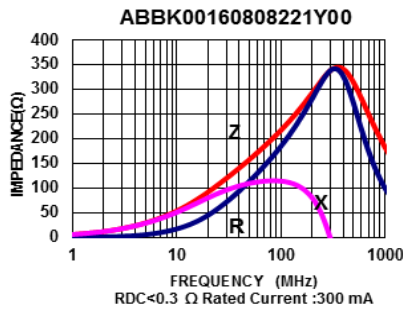
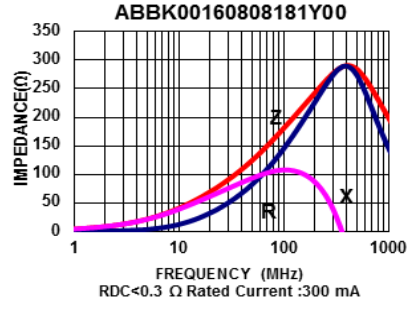
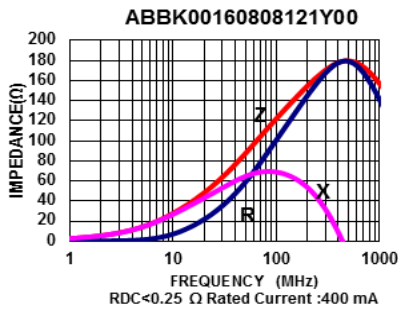
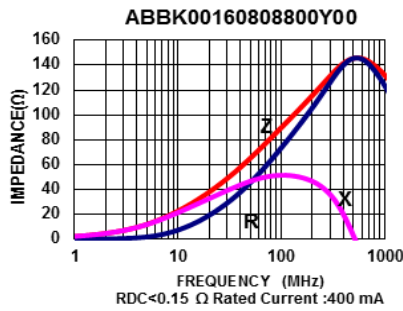
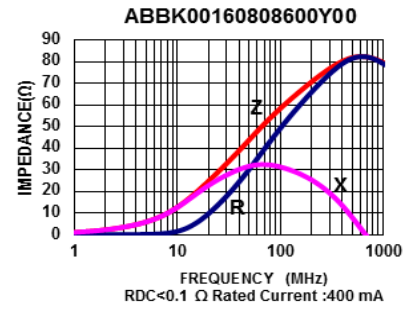
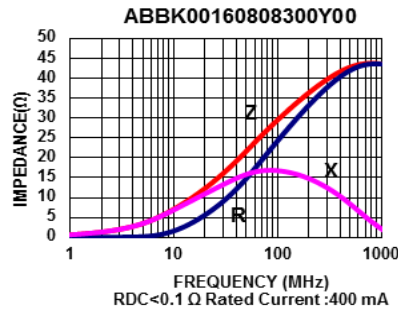
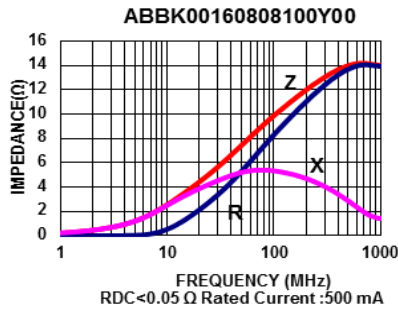
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABBK00160808100Y00	10	100 MHz,200 mV	0.05	500
ABBK00160808300Y00	30	100 MHz,200 mV	0.10	400
ABBK00160808600Y00	60	100 MHz,200 mV	0.10	400
ABBK00160808800Y00	80	100 MHz,200 mV	0.15	400
ABBK00160808121Y00	120	100 MHz,200 mV	0.25	400
ABBK00160808181Y00	180	100 MHz,200 mV	0.30	300
ABBK00160808221Y00	220	100 MHz,200 mV	0.30	300
ABBK00160808301Y00	300	100 MHz,200 mV	0.40	300
ABBK00160808471Y00	470	100 MHz,200 mV	0.50	300
ABBK00160808601Y00	600	100 MHz,200 mV	0.50	300
ABBK00160808102Y00	1000	100 MHz,200 mV	0.60	300

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 40°C ~ 125°C
2. Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:
  - Z: HP4291A
  - RDC: HP4338B or CHEN HWA 502

ABBK00160808 Type

Characteristics Graph

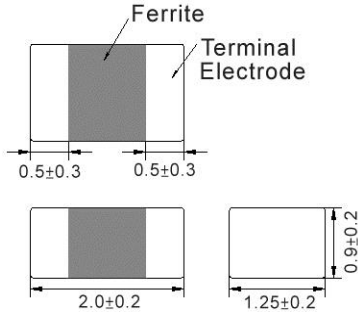


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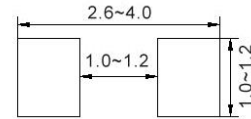
ABBK00201209 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

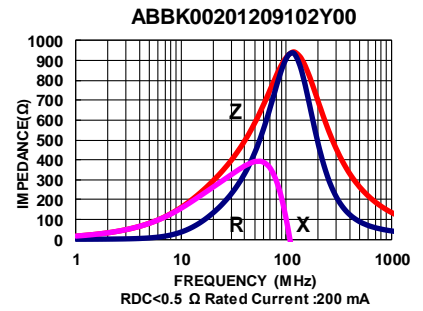
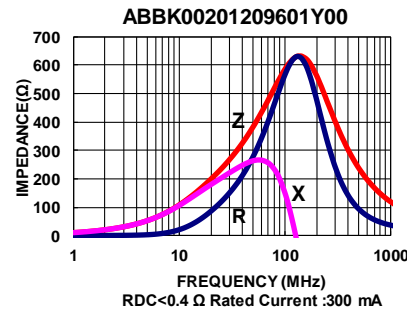
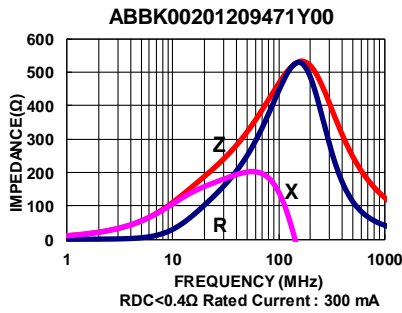
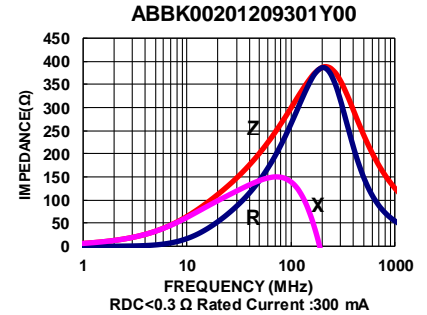
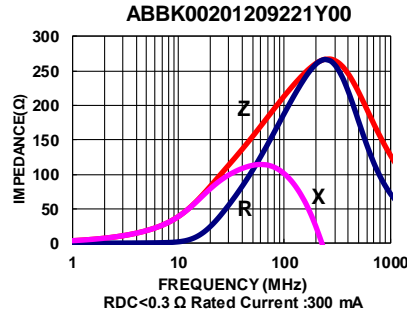
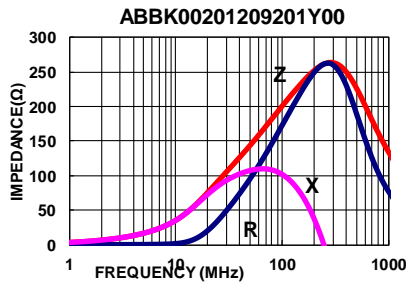
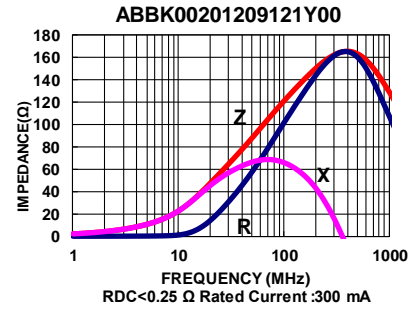
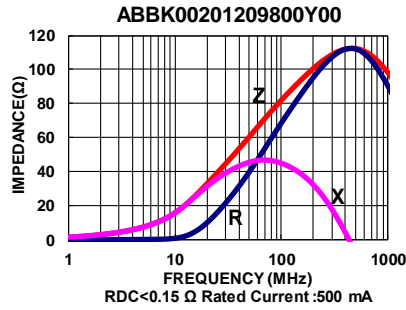
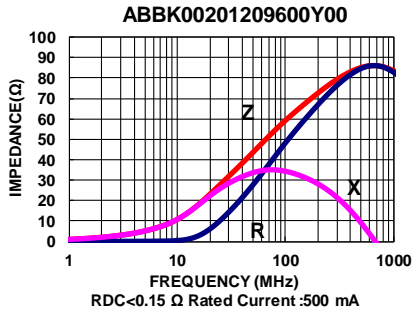
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABBK00201209600Y00	60	100 MHz,200 mV	0.15	500
ABBK00201209800Y00	80	100 MHz,200 mV	0.15	500
ABBK00201209121Y00	120	100 MHz,200 mV	0.25	300
ABBK00201209201Y00	200	100 MHz,200 mV	0.30	300
ABBK00201209221Y00	220	100 MHz,200 mV	0.30	300
ABBK00201209301Y00	300	100 MHz,200 mV	0.30	300
ABBK00201209471Y00	470	100 MHz,200 mV	0.40	300
ABBK00201209601Y00	600	100 MHz,200 mV	0.40	300
ABBK00201209102Y00	1000	100 MHz,200 mV	0.50	200

Note: When ordering, please specify tolerance code. Tolerance: Y=±25%

1. Operating temperature range - 40°C ~ 125°C
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3. Measure Equipment:  
Z: HP4291A  
RDC: HP4338B or CHEN HWA 502

ABBK00201209 Type

Characteristics Graph

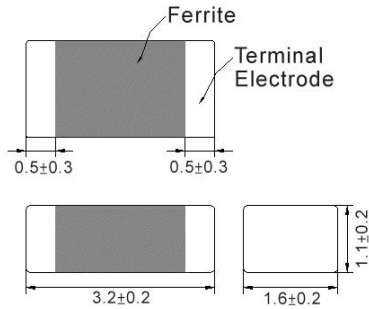


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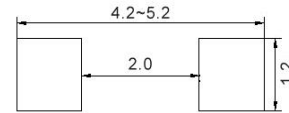
**ABBK00321611 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

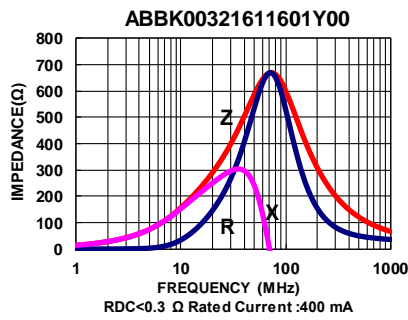
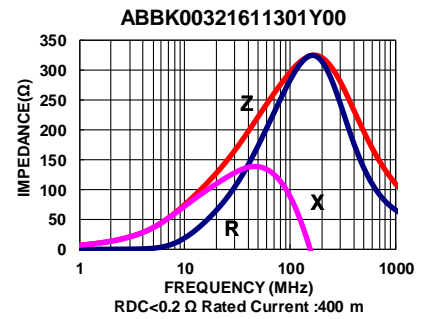
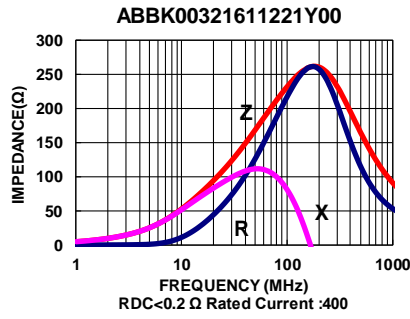
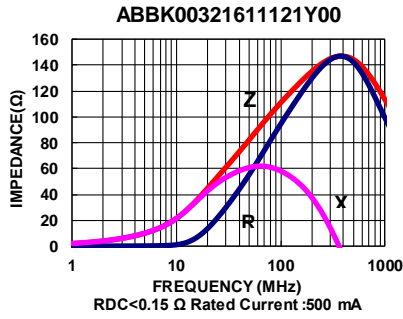
Part No.	Impedance (Ω)	Test Freq.	RDC (Ω)Max.	Rated Current (mA)Max.
ABBK00321611121Y00	120	100 MHz,200 mV	0.15	500
ABBK00321611221Y00	220	100 MHz,200 mV	0.20	400
ABBK00321611301Y00	300	100 MHz,200 mV	0.20	400
ABBK00321611601Y00	600	100 MHz,200 mV	0.30	400

**Note: When ordering, please specify tolerance code. Tolerance: Y=±25%**

- Operating temperature range - 40°C ~ 125°C
- Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Measure Equipment:  
Z: HP4291A  
RDC: HP4338B or CHEN HWA 502

ABBK00321611 Type

■ Characteristics Graph

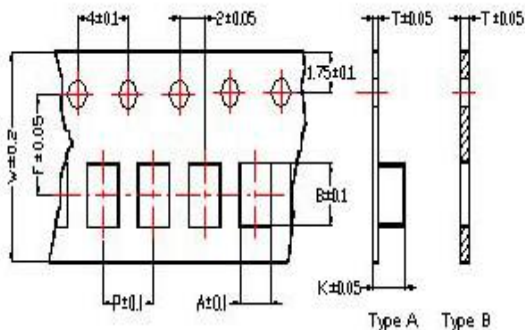


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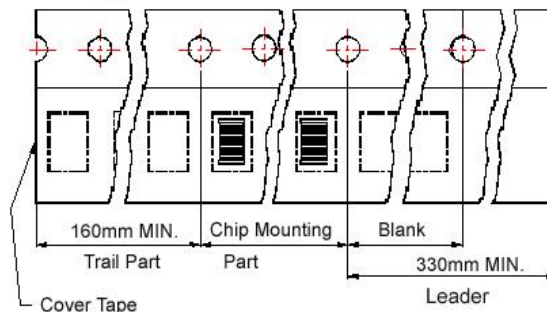
**■ Packaging**

**Tape Dimensions**

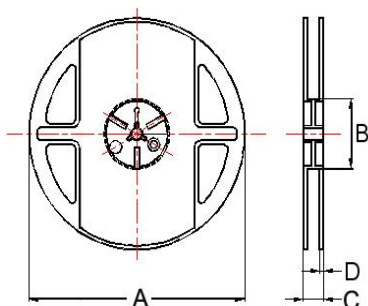


**Tape Material**

Carrier Tape: Polycarbonate (Tape A)  
Carrier Tape: Paper (Tape B)  
Cover Tape: Polystyrene



**Reel Dimensions**



**Dimensions in mm**

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape	A	B	C	D	PCS / Reel
ABBK00160808	1.05	1.85	0.95	8	4	3.5	-	B	178	60	12	2	4000
ABBK00201209	1.50	2.30	0.97	8	4	3.5	-	B	178	60	12	2	4000
ABBK00321611	1.88	3.50	0.22	8	4	3.5	1.27	A	178	60	12	2	3000