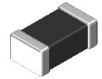


## Multilayer Chip Ferrite Beads---FBG Series



### Feature

- Wide range of frequency to suppress EMI.
- Wide range of impedance values for various applications.
- Internal silver printed layers and magnetic shielded structure.
- RoHS compliant.
- Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise).

### Application

- High frequency EMI prevention of computers, printers, VCRs TVs and portable telephone.

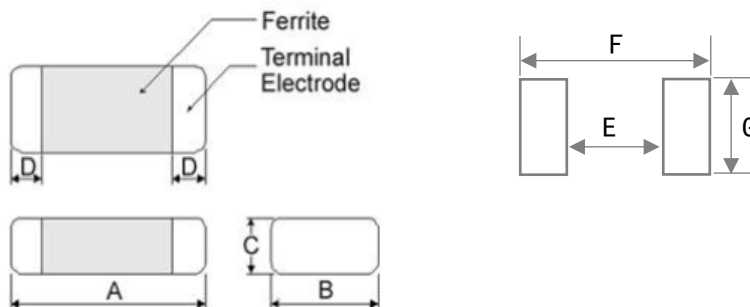
### Production identification

FBG
1005
-
121
Y

①
②
③
④

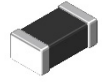
- ① Series name: General Ferrite Bead
- ② Size:  $1.0 \times 0.5 \times 0.5\text{mm}$
- ③ Impedance:  $120\Omega$
- ④ Tolerance:  $\pm 25\%$

### Series Shape and Dimensions (Unit:mm)



Series	A	B	C	D	$E_{Typ}$	$F_{Typ}$	$G_{Typ}$	SPQ
FBG1005	$1.0 \pm 0.15$	$0.5 \pm 0.15$	$0.5 \pm 0.15$	$0.25 \pm 0.1$	0.4	1.3	0.5	10000
FBG1608	$1.6 \pm 0.15$	$0.8 \pm 0.15$	$0.8 \pm 0.15$	$0.3 \pm 0.2$	0.7	1.8	0.8	4000
FBG2012	$2.0 \pm 0.2$	$1.25 \pm 0.2$	$0.85 \pm 0.2$	$0.5 \pm 0.3$	1.0	2.6	1.2	4000
FBG3216	$3.2 \pm 0.2$	$1.6 \pm 0.2$	$1.1 \pm 0.2$	$0.5 \pm 0.3$	2.0	4.2	1.6	3000

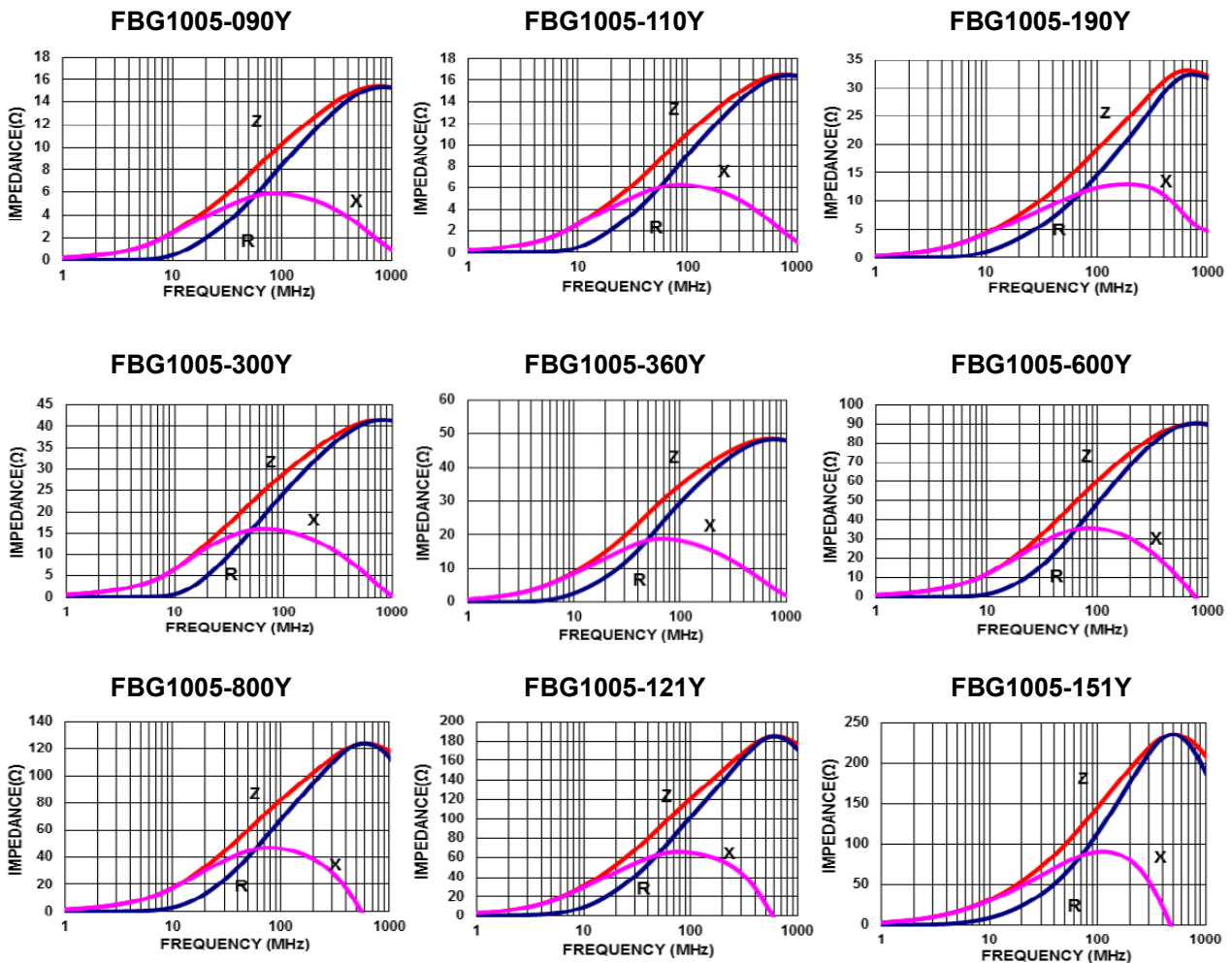
# Multilayer Chip Ferrite Beads---FBG Series



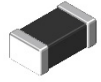
## FBG1005 Electrical Characteristics

Part Number	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	DCR Max ( $\Omega$ )	Current Max (A)
FBG1005-090Y	9	25	100	0.10	0.30
FBG1005-110Y	11	25	100	0.10	0.30
FBG1005-190Y	19	25	100	0.10	0.30
FBG1005-300Y	30	25	100	0.20	0.30
FBG1005-360Y	36	25	100	0.20	0.30
FBG1005-600Y	60	25	100	0.35	0.20
FBG1005-800Y	80	25	100	0.40	0.15
FBG1005-121Y	120	25	100	0.50	0.15
FBG1005-151Y	150	25	100	0.55	0.15
FBG1005-181Y	180	25	100	0.60	0.15
FBG1005-221Y	220	25	100	0.70	0.10
FBG1005-301Y	300	25	100	0.80	0.10
FBG1005-501Y	500	25	100	1.10	0.10
FBG1005-601Y	600	25	100	1.30	0.10
FBG1005-102Y	1000	25	100	1.60	0.02

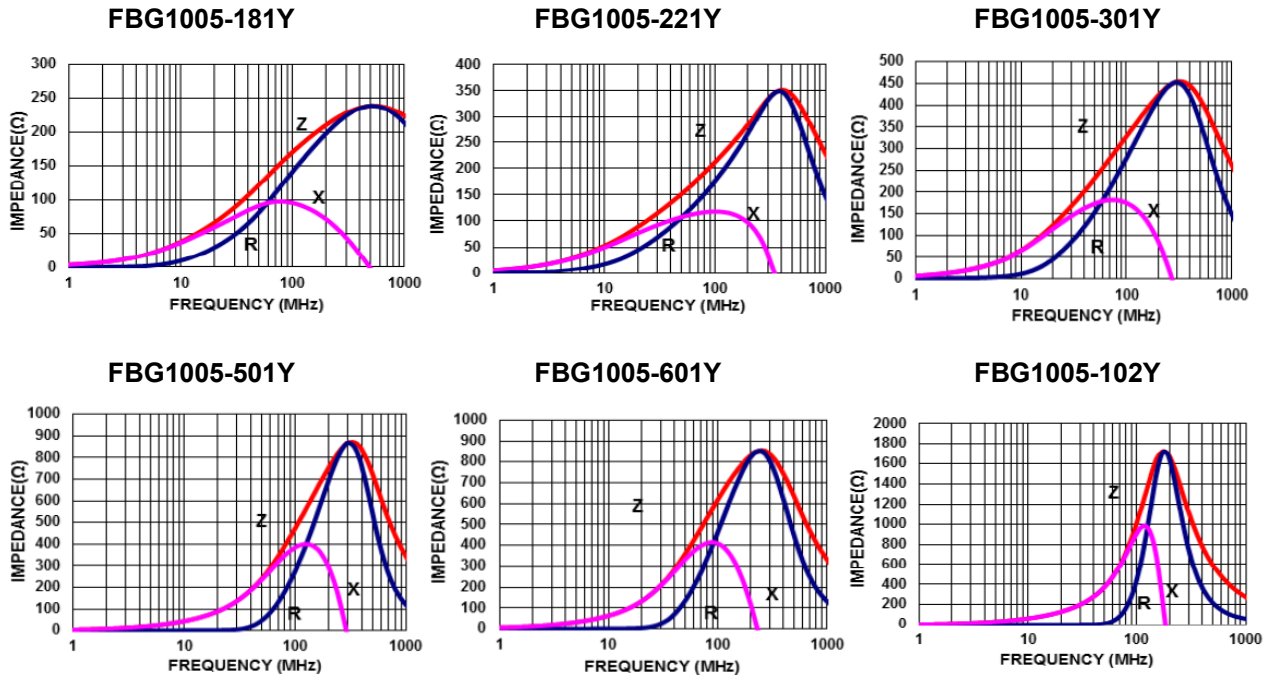
## Typical Impedance vs. Frequency Curves



## Multilayer Chip Ferrite Beads---FBG Series



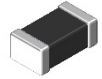
### Typical Impedance vs. Frequency Curves



#### Notes:

1. Rated Current: Applied the current to chip bead, the temperature rise shall not be more than 30°C.
2. Measuring Equipment:  
 Z: HP4291A      RDC: HP4338B or CHEN HWA 502

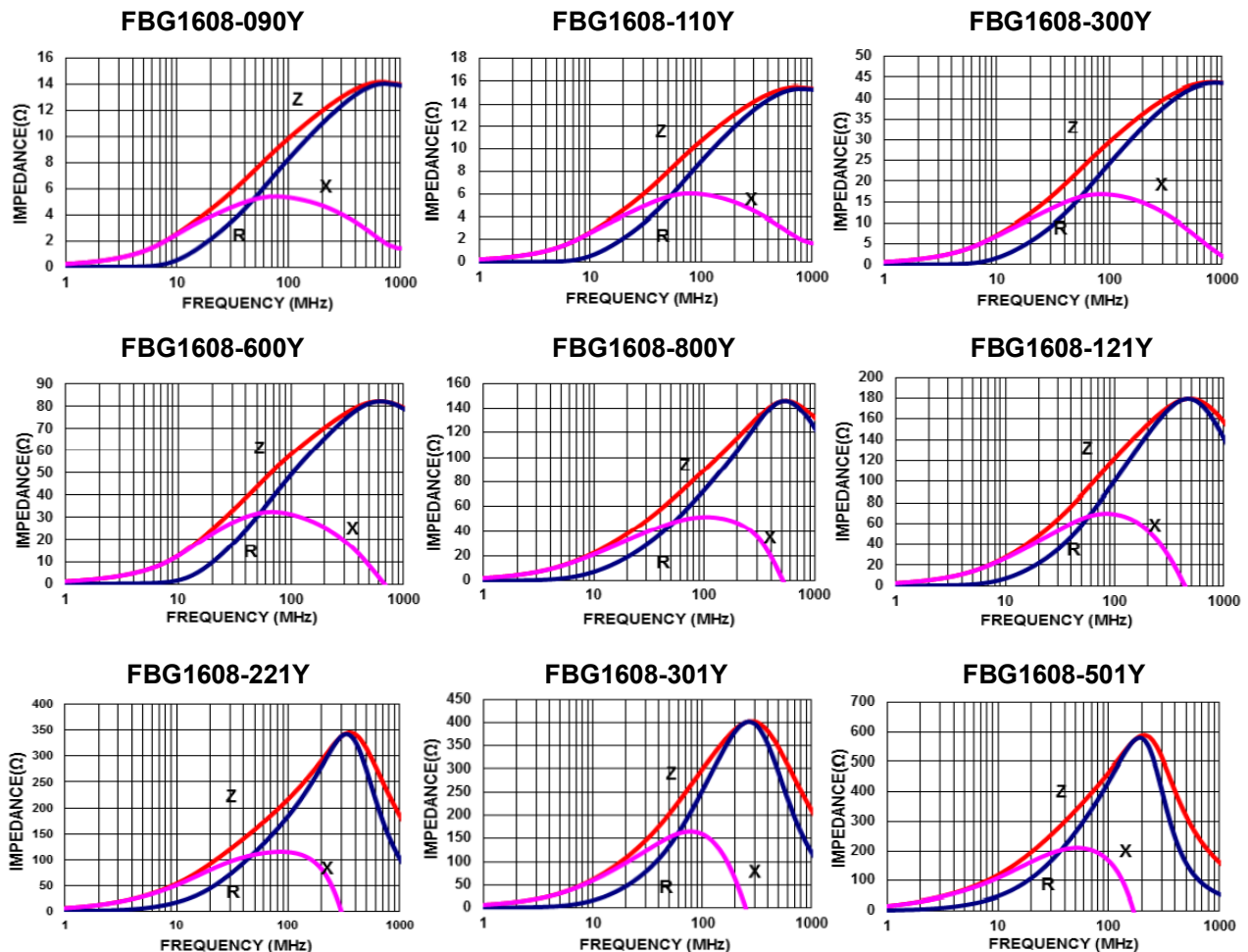
# Multilayer Chip Ferrite Beads---FBG Series



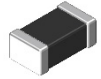
## FBG1608 Electrical Characteristics

Part Number	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	DCR Max ( $\Omega$ )	Current Max (A)
FBG1608-090Y	9	25	100	0.10	0.80
FBG1608-110Y	11	25	100	0.10	0.80
FBG1608-300Y	30	25	100	0.10	0.50
FBG1608-600Y	60	25	100	0.20	0.30
FBG1608-800Y	80	25	100	0.20	0.30
FBG1608-121Y	120	25	100	0.30	0.20
FBG1608-221Y	220	25	100	0.45	0.20
FBG1608-301Y	300	25	100	0.50	0.15
FBG1608-501Y	500	25	100	0.60	0.15
FBG1608-601Y	600	25	100	0.60	0.10
FBG1608-102Y	1000	25	100	0.80	0.10
FBG1608-152Y	1500	25	100	0.85	0.05
FBG1608-182Y	1800	25	100	1.10	0.05
FBG1608-202Y	2000	25	100	1.15	0.05
FBG1608-222Y	2200	25	100	1.20	0.05
FBG1608-252Y	2500	25	100	1.30	0.05

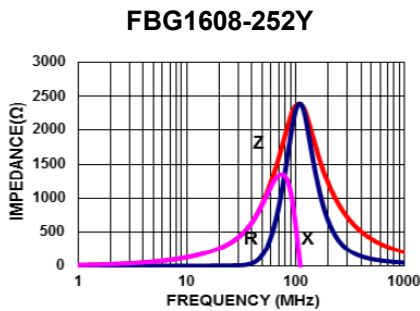
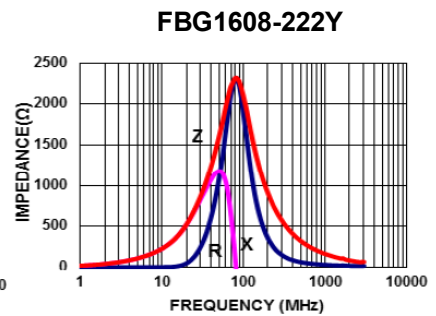
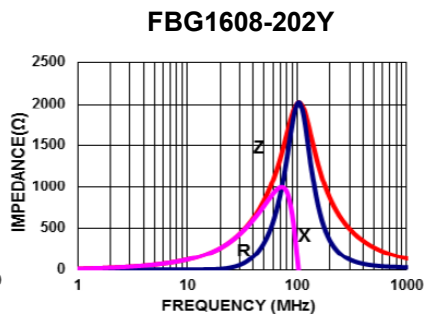
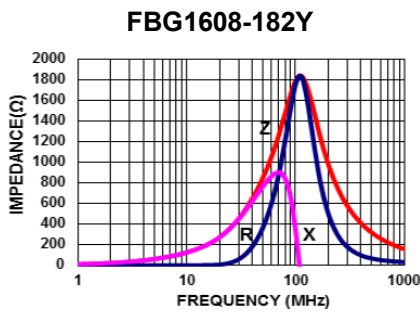
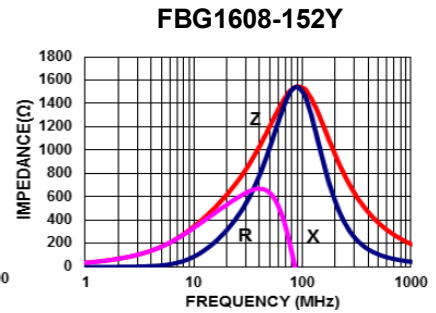
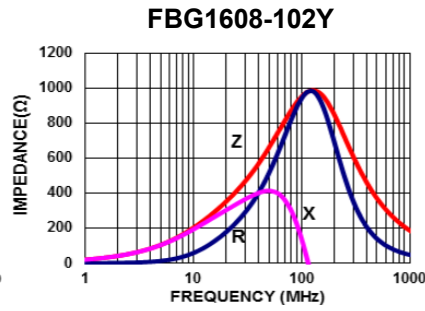
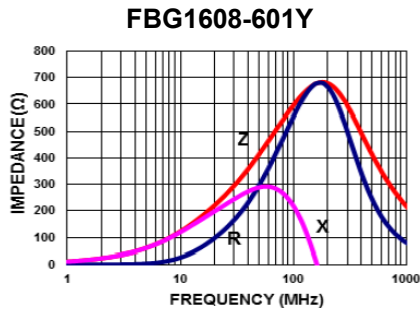
## Typical Impedance vs. Frequency Curves



## Multilayer Chip Ferrite Beads---FBG Series



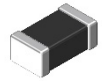
### Typical Impedance vs. Frequency Curves



#### Notes:

1. Rated Current: Applied the current to chip bead, the temperature rise shall not be more than 30°C.
2. Measuring Equipment:  
 Z: HP4291A      RDC: HP4338B or CHEN HWA 502

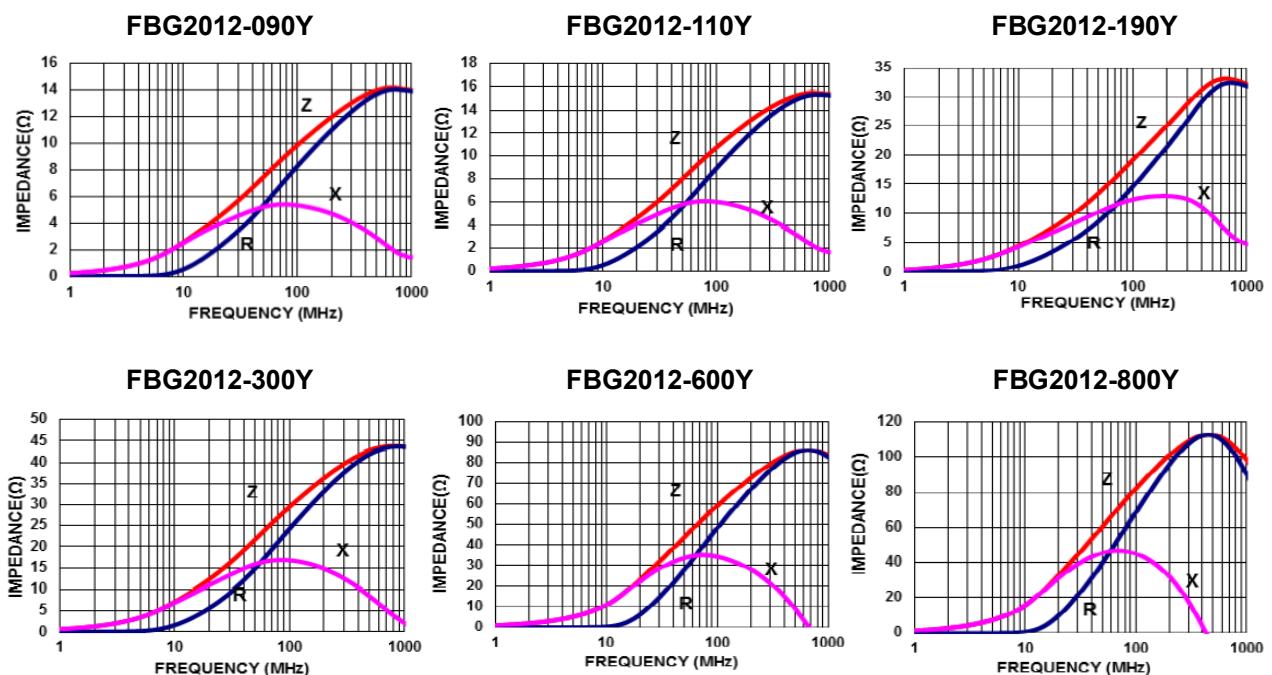
# Multilayer Chip Ferrite Beads---FBG Series



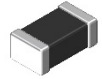
## FBG2012 Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance (±%)	Test Freq. (MHz)	DCR Max (Ω)	Current Max (A)
FBG2012-090Y	9	25	100	0.10	0.90
FBG2012-110Y	11	25	100	0.10	0.90
FBG2012-190Y	19	25	100	0.10	0.90
FBG2012-300Y	30	25	100	0.10	0.90
FBG2012-600Y	60	25	100	0.15	0.90
FBG2012-800Y	80	25	100	0.18	0.50
FBG2012-121Y	120	25	100	0.20	0.40
FBG2012-221Y	220	25	100	0.20	0.30
FBG2012-301Y	300	25	100	0.35	0.30
FBG2012-501Y	500	25	100	0.40	0.30
FBG2012-601Y	600	25	100	0.40	0.30
FBG2012-102Y	1000	25	100	0.45	0.20
FBG2012-122Y	1200	25	100	0.60	0.10
FBG2012-152Y	1500	25	100	0.70	0.10
FBG2012-202Y	2000	25	100	0.90	0.05
FBG2012-222Y	2200	25	100	1.00	0.05
FBG2012-252Y	2500	25	100	1.20	0.05
FBG2012-272Y	2700	25	100	1.40	0.03

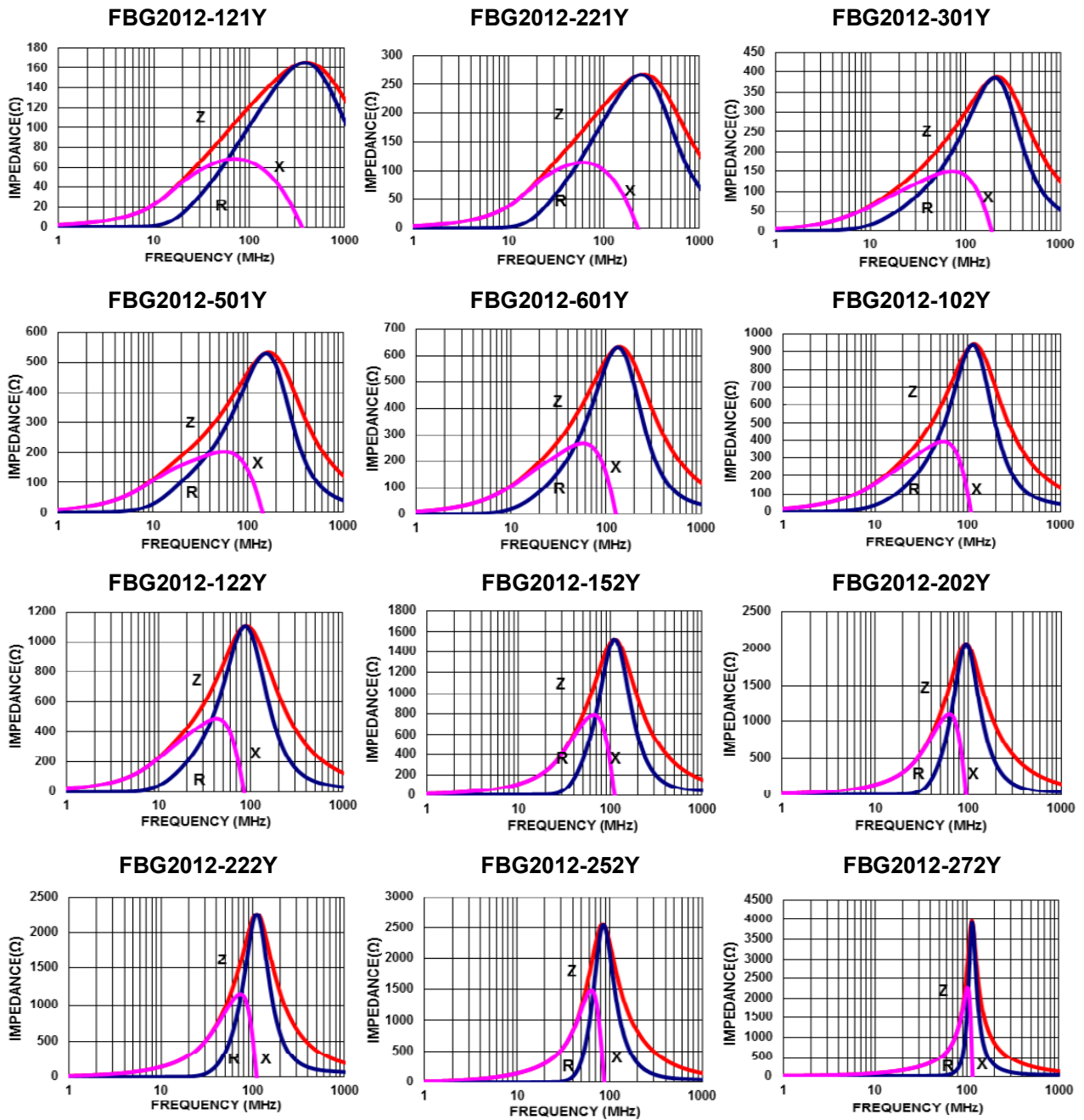
## Typical Impedance vs. Frequency Curves



# Multilayer Chip Ferrite Beads---FBG Series



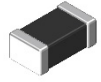
## Typical Impedance vs. Frequency Curves



### Notes:

1. Rated Current: Applied the current to chip bead, the temperature rise shall not be more than 30°C.
2. Measuring Equipment:  
 Z: HP4291A      RDC: HP4338B or CHEN HWA 502

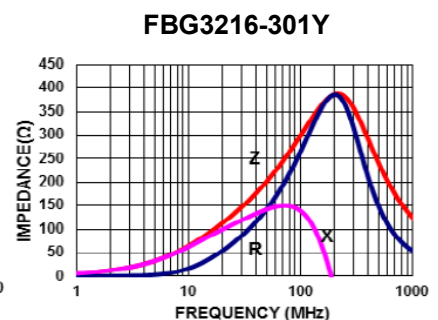
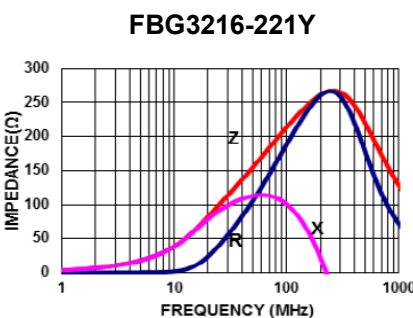
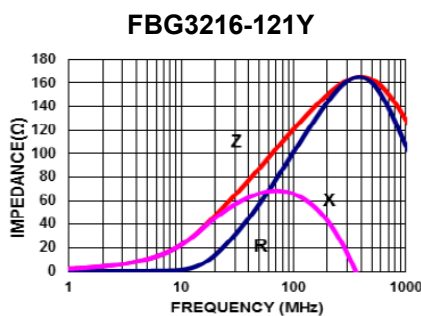
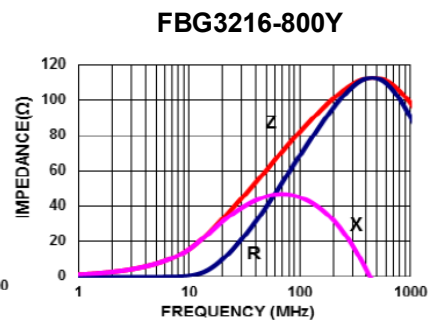
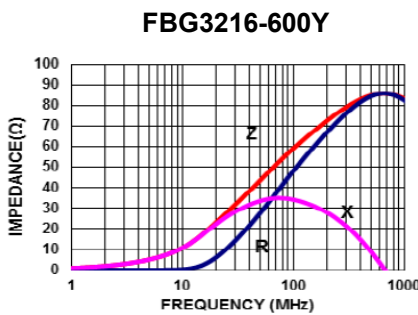
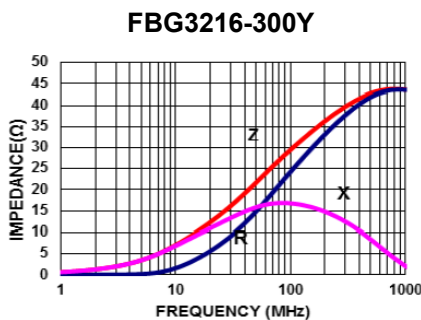
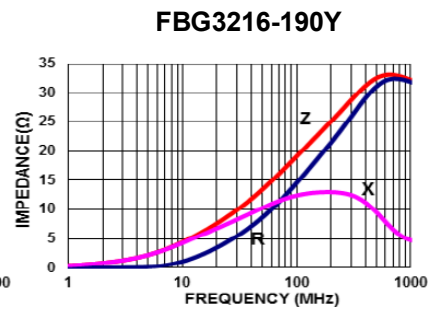
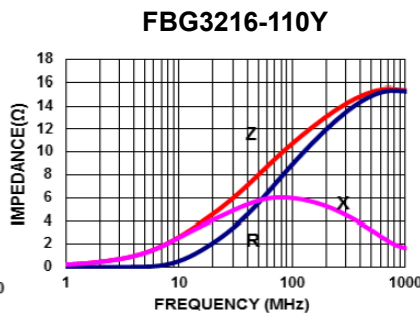
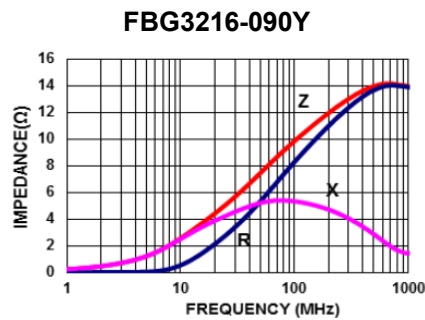
# Multilayer Chip Ferrite Beads---FBG Series



## FBG3216 Electrical Characteristics

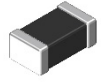
Part Number	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	DCR Max ( $\Omega$ )	Current Max (A)
FBG3216-090Y	9	25	100	0.10	1.00
FBG3216-110Y	11	25	100	0.10	1.00
FBG3216-190Y	19	25	100	0.10	1.00
FBG3216-300Y	30	25	100	0.10	1.00
FBG3216-600Y	60	25	100	0.15	1.00
FBG3216-800Y	80	25	100	0.15	1.00
FBG3216-121Y	120	25	100	0.25	1.00
FBG3216-221Y	220	25	100	0.35	0.40
FBG3216-301Y	300	25	100	0.40	0.40
FBG3216-501Y	500	25	100	0.45	0.30
FBG3216-601Y	600	25	100	0.45	0.30
FBG3216-102Y	1000	25	100	0.55	0.30
FBG3216-122Y	1200	25	100	0.60	0.10
FBG3216-202Y	2000	25	100	1.00	0.05

## Typical Impedance vs. Frequency Curves

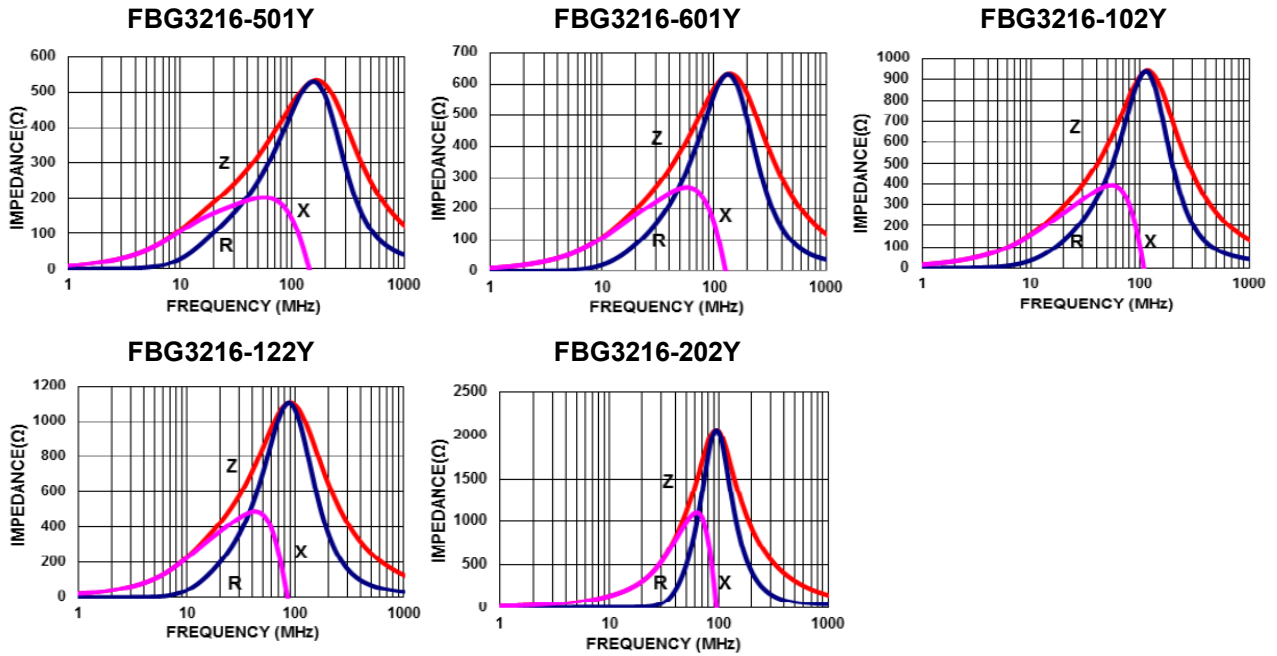




## Multilayer Chip Ferrite Beads---FBG Series



### Typical Impedance vs. Frequency Curves



#### Notes:

1. Rated Current: Applied the current to chip bead, the temperature rise shall not be more than 30°C.
2. Measuring Equipment:  
 Z: HP4291A      RDC: HP4338B or CHEN HWA 502

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ferrite Beads](#) category:*

*Click to view products by [Linekey](#) manufacturer:*

Other Similar products are found below :

[CZB1EGTTP700P](#) [CZB1JGTTD152P](#) [CZB1JGTTD601P](#) [CZB2AFTTD800P](#) [CZB2AGTTD121P](#) [CZB2AGTTD601P](#) [CZB2BFTTE600P](#)  
[PE-0402FB121ST](#) [NCB0603R301TR050F](#) [NCB0805A320TR050F](#) [NCB-H1206B680TR300F](#) [SMB2.5-1TR](#) [SMB2.5R-2](#) [CZB1EGTTP121P](#)  
[CZB1JGTTD102P](#) [CZB1JGTTD121P](#) [CZB1JGTTD221P](#) [CZB2AGTTD301P](#) [CZB2BFTTE301P](#) [CZB2BFTTE601P](#) [4221R-1](#) [4221R-2](#)  
[432703041971](#) [EMI0805R-2000](#) [EMI0805R-600](#) [SBY100505T-100Y-N](#) [NCB-GH0402D121TR060F](#) [NCB-H1812D125TR150F](#)  
[CZB2AGTTD102P](#) [NCB0402P301TR005F](#) [NCB0603R152TR030F](#) [NCB0805A121TR050F](#) [NCB3312K900TR500F](#) [NCB-](#)  
[H0805A102TR150F](#) [NCB-H0805A221TR300F](#) [NCB-H1806E181TR300F](#) [NCB0402P300TR030F](#) [NCB0805A102TR040F](#)  
[NCB1806E151TR020F](#) [NCB-H0603R121TR300F](#) [NCB-H0805A220TR600F](#) [NCB-H0805A390TR400F](#) [NCB-H1206B121TR300F](#) [NCB-](#)  
[H1206B601TR200F](#) [CIM21J252NE](#) [EMI0805R-220](#) [74279250](#) [7427924](#) [CZB1JGTTD202P](#) [ABUPDE160808121Y00](#)