

Multilayer Chip Ferrite Beads---FBH 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

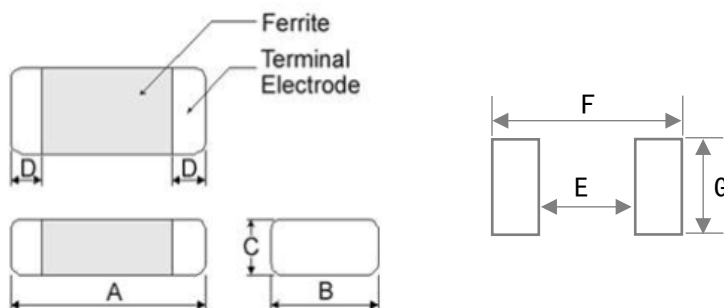
- High frequency EMI prevention of computers, printers, VCRs TVs and portable telephone.

Production identification

FBH 1005 - 121 Y
① ② ③ ④

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

Series Shape and Dimensions (Unit:mm)



Series	A	B	C	D	E_{Typ}	F_{Typ}	G_{Typ}	SPQ
FBH1005	1.0 ± 0.15	0.5 ± 0.15	0.5 ± 0.15	0.25 ± 0.1	0.4	1.3	0.5	10000
FBH1608	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2	0.7	1.8	0.8	4000
FBH2012	2.0 ± 0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3	1.0	2.6	1.2	4000
FBH3216	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	2.0	4.2	1.6	3000

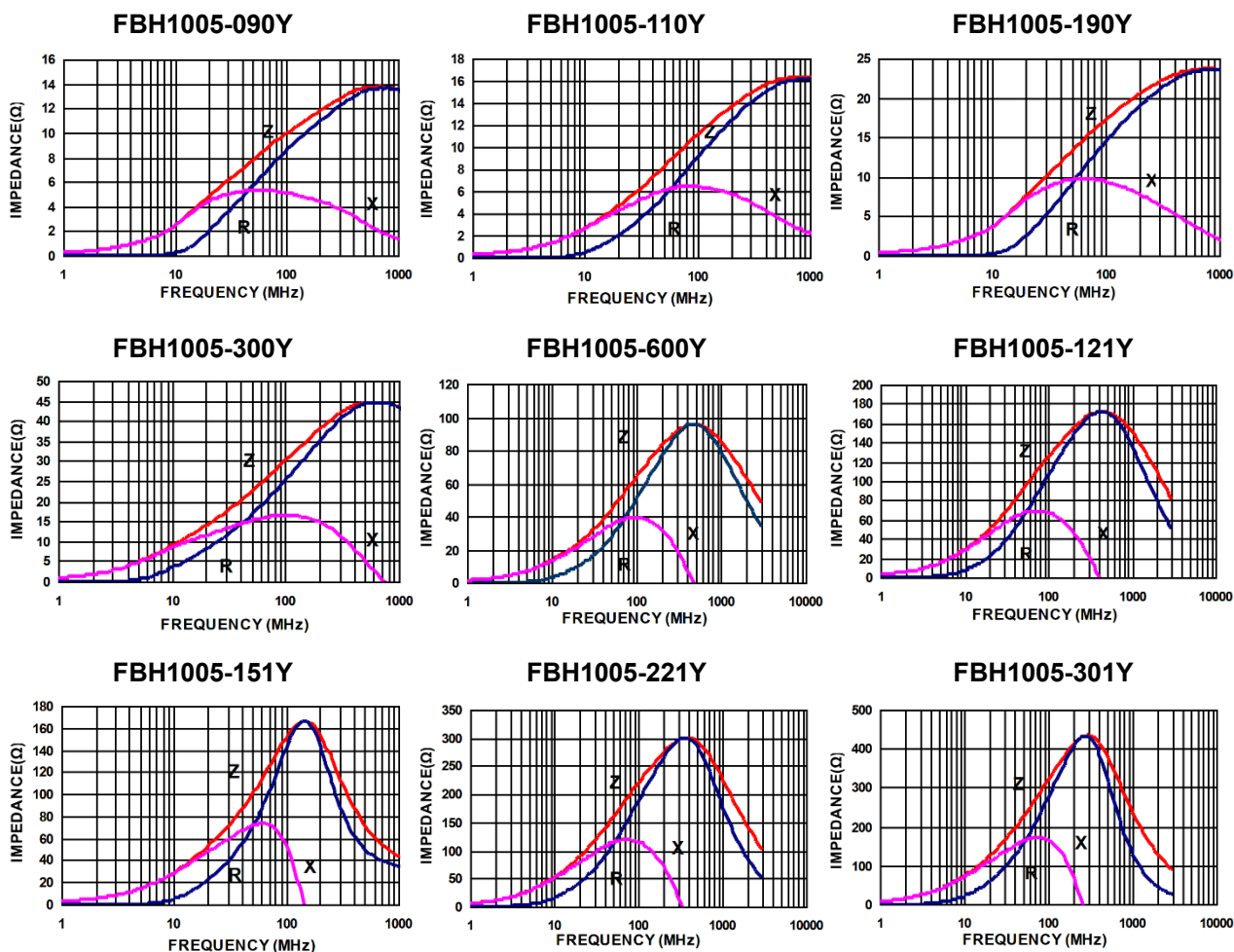
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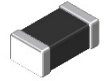
FBH1005 Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	DCR Max (Ω)	Current Max (A)
FBH1005-090Y	9	25	100	0.05	1.80
FBH1005-110Y	11	25	100	0.05	1.80
FBH1005-190Y	19	25	100	0.06	1.50
FBH1005-300Y	30	25	100	0.08	1.30
FBH1005-600Y	60	25	100	0.10	1.00
FBH1005-121Y	120	25	100	0.15	0.80
FBH1005-151Y	150	25	100	0.20	0.70
FBH1005-221Y	220	25	100	0.30	0.60
FBH1005-301Y	300	25	100	0.30	0.60
FBH1005-601Y	600	25	100	0.50	0.50
FBH1005-801Y	800	25	100	0.65	0.30

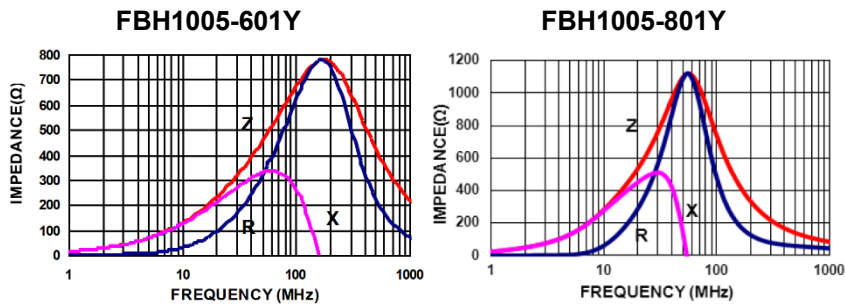
Typical Impedance vs. Frequency Curves



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Typical Impedance vs. Frequency Curves



Notes:

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

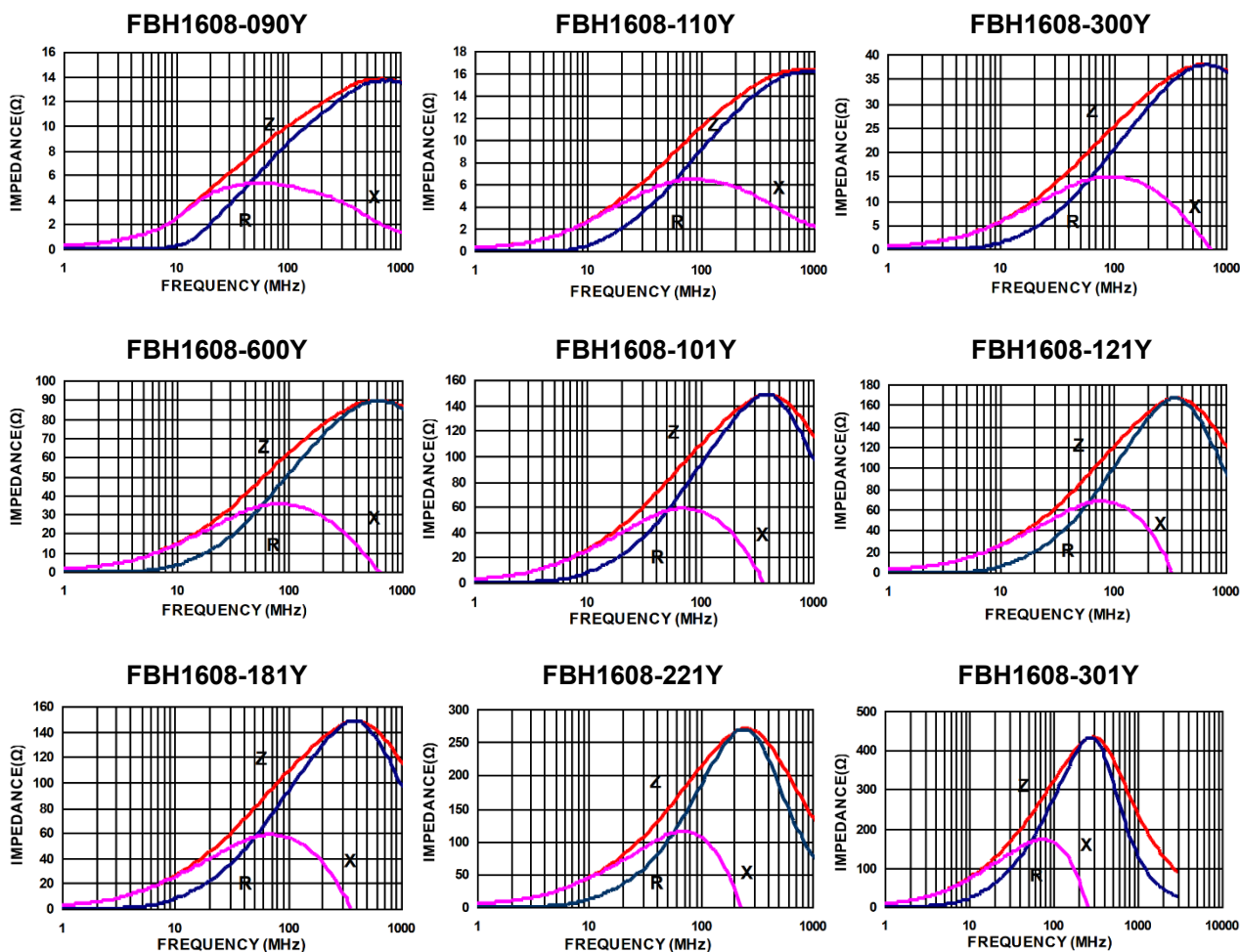
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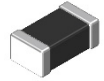
FBH1608 Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	DCR Max (Ω)	Current Max (A)
FBH1608-090Y	9	25	100	0.02	6.00
FBH1608-110Y	11	25	100	0.03	5.00
FBH1608-300Y	30	25	100	0.03	4.00
FBH1608-600Y	60	25	100	0.04	3.00
FBH1608-101Y	100	25	100	0.06	2.50
FBH1608-121Y	120	25	100	0.07	2.00
FBH1608-181Y	180	25	100	0.09	1.50
FBH1608-221Y	220	25	100	0.12	1.50
FBH1608-301Y	300	25	100	0.18	1.50
FBH1608-501Y	500	25	100	0.18	1.20
FBH1608-601Y	600	25	100	0.18	1.20

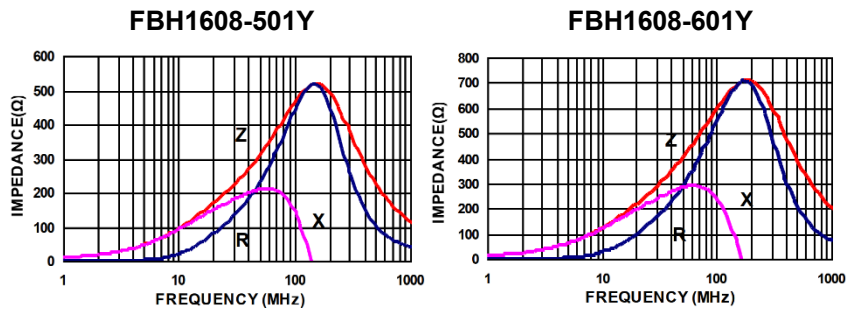
Typical Impedance vs. Frequency Curves



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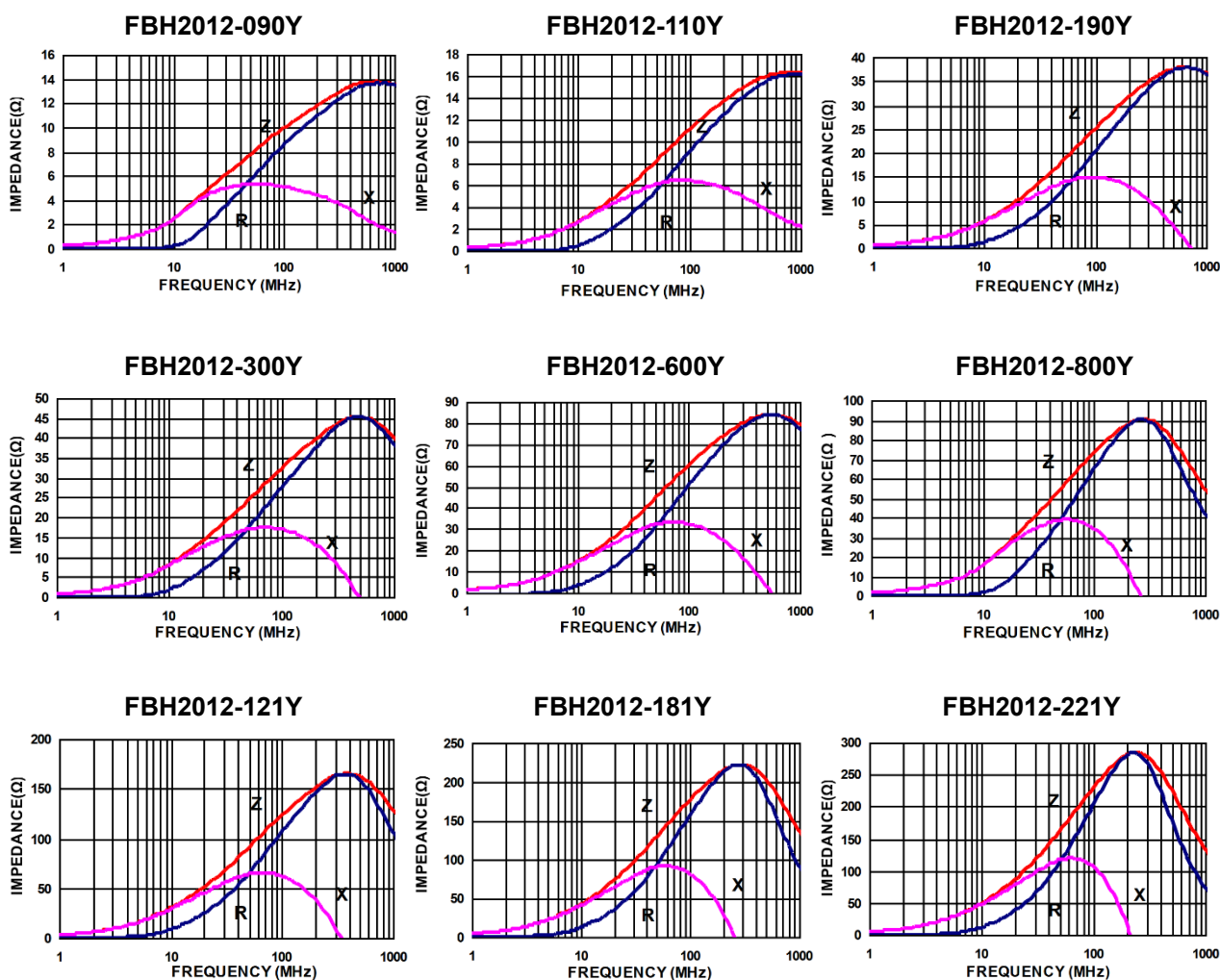
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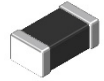
FBH2012 Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	DCR Max (Ω)	Current Max (A)
FBH2012-090Y	9	25	100	0.01	6.00
FBH2012-110Y	11	25	100	0.01	6.00
FBH2012-190Y	19	25	100	0.01	6.00
FBH2012-300Y	30	25	100	0.01	6.00
FBH2012-600Y	60	25	100	0.04	3.50
FBH2012-800Y	80	25	100	0.04	3.00
FBH2012-121Y	120	25	100	0.05	3.00
FBH2012-181Y	180	25	100	0.08	2.50
FBH2012-221Y	220	25	100	0.08	2.50
FBH2012-301Y	300	25	100	0.08	2.50
FBH2012-601Y	600	25	100	0.10	2.00
FBH2012-102Y	1000	25	100	0.12	1.50

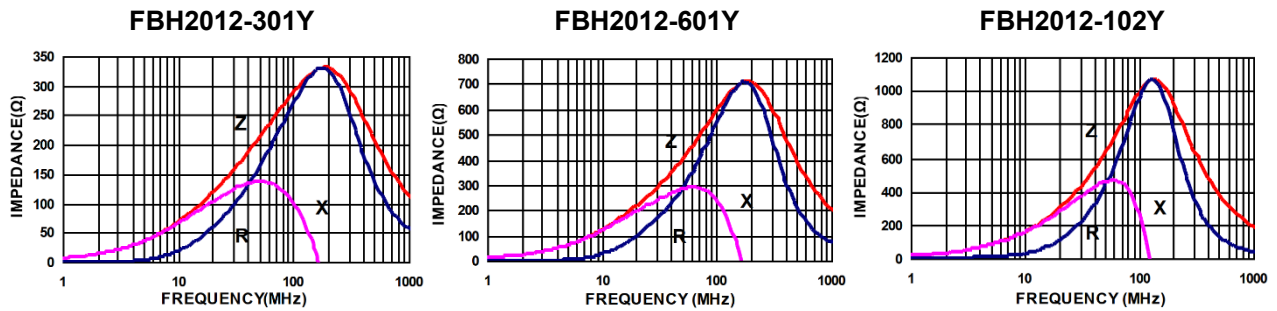
Typical Impedance vs. Frequency Curves



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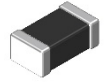
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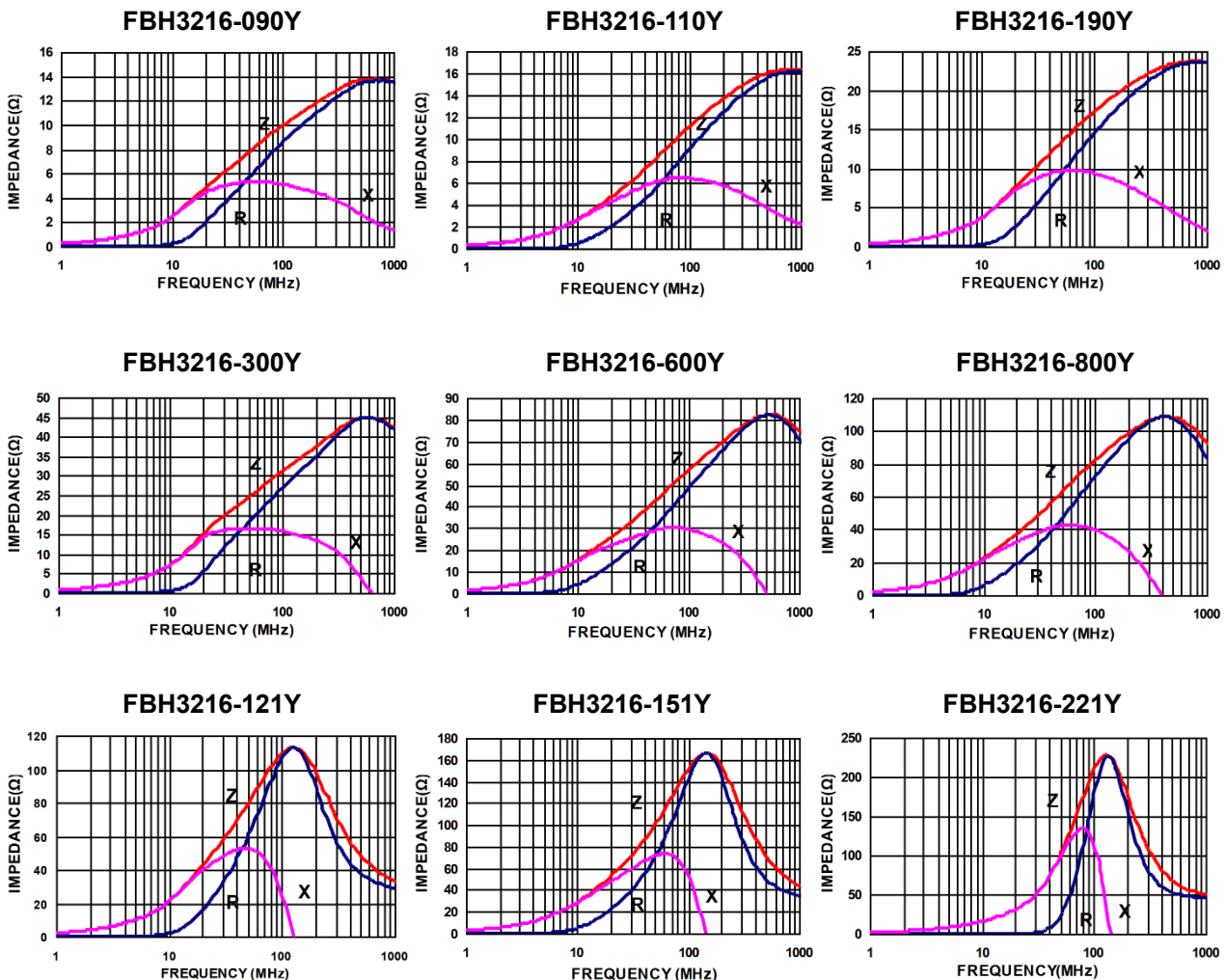
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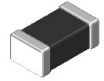
FBH3216 Electrical Characteristics

Part Number	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	DCR Max (Ω)	Current Max (A)
FBH3216-090Y	9	25	100	0.015	6.00
FBH3216-110Y	11	25	100	0.015	6.00
FBH3216-190Y	19	25	100	0.015	6.00
FBH3216-300Y	30	25	100	0.015	6.00
FBH3216-600Y	60	25	100	0.025	4.00
FBH3216-800Y	80	25	100	0.035	4.00
FBH3216-121Y	120	25	100	0.035	4.00
FBH3216-151Y	150	25	100	0.045	3.00
FBH3216-221Y	220	25	100	0.055	3.00
FBH3216-301Y	300	25	100	0.065	2.50
FBH3216-501Y	500	25	100	0.085	2.50
FBH3216-601Y	600	25	100	0.10	2.00
FBH3216-801Y	800	25	100	0.11	2.00
FBH3216-102Y	1000	25	100	0.12	2.00

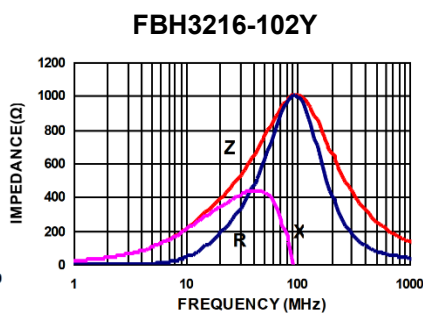
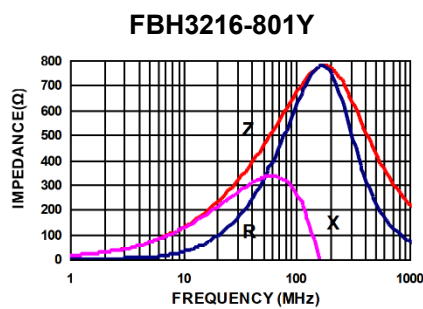
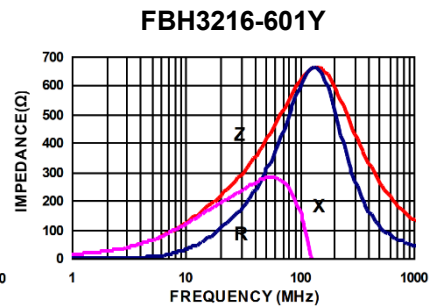
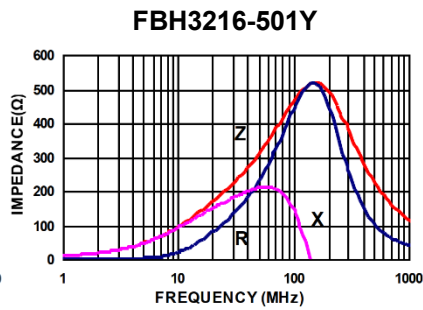
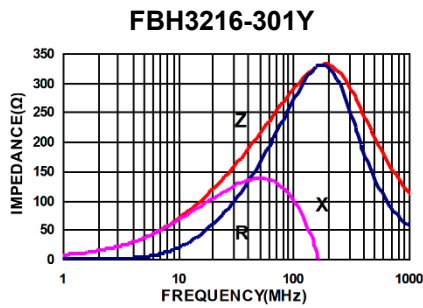
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