



MULTILAYER CHIP SUPPRESSORS (CHIP BEADS)

FBH series for DC power line
Rated Current : 1-3A

FEATURES

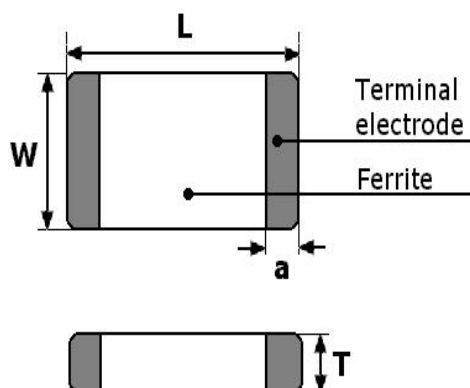
The FBH series can be used on high current circuits due to its low DC resistance. It can match power lines to a maximum of 3A DC.

APPLICATION

High current DC power line EMI suppress. Examples:

1. CD-ROMs
2. Hard Drives
3. Modems
4. Monitors
5. Motherboards
6. Printers

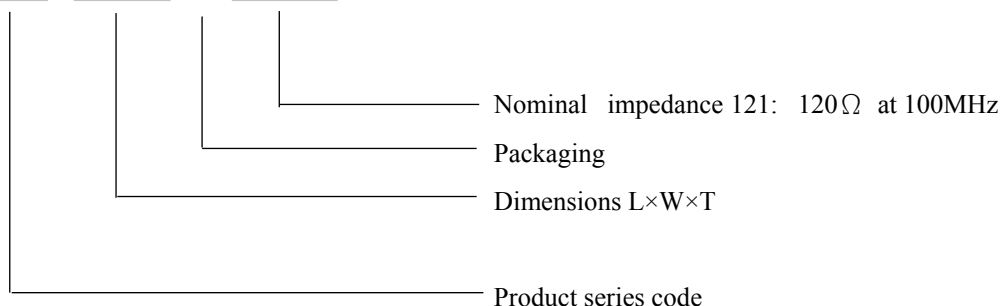
SHAPES AND DIMENSIONS



SHAPE	L m/m	W m/m	T m/m	a m/m
100505(0402)	1.6±0.05	0.8±0.15	0.5±0.05	0.1~0.2
160808(0603)	1.6±0.15	0.5±0.05	0.8±0.15	0.2~0.6
201209(0805)	2.0±0.2	1.25±0.2	0.9+0.15/-0.2	0.2~0.8
321611(1206)	3.2±0.2	1.6±0.2	1.1±0.2	0.4~1.0
321616(1206H)	3.2±0.2	1.6±0.2	1.6±0.2	0.4~1.0
322513(1210)	3.2±0.2	2.5±0.2	1.3±0.2	0.6~1.0
451616(1806)	4.5±0.2	1.6±0.2	1.6±0.2	0.6~1.0
453215(1812)	4.5±0.2	3.2±0.2	1.5±0.2	0.6~1.0

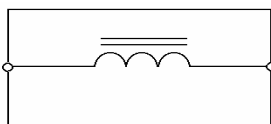
CALCHIP PART NUMBERING SYSTEM

FBH 160808 T 121Y-S



FBH series for DC power line EQUIVALENT CIRCUIT DIAGRAM

Rated Current: 1-3A



•No directionality



Electrical characteristics

Part Number	Impedance (Ω) $\pm 25\%$ [100MHz]	DC Resistance Ω (MAX)	Rated Current mA (MAX)
1005			
FBH100505T-100Y-S	10	0.03	2000
FBH100505T-300Y-S	30	0.03	3000
FBH100505T-121Y-S	120	0.09	1200
FBH100505T-121Y-H	120	0.055	2000
1608			
FBH160808T-300Y-S	30	0.04	3000
FBH160808T-600Y-S	60	0.04	3000
FBH160808T-101Y-S	100	0.04	3000
FBH160808T-121Y-S	120	0.05	2000
FBH160808T-221Y-S	220	0.08	2000
FBH160808T-601Y-S	600	0.3	1000
2012			
FBH201209T-110Y-S	11	0.03	3000
FBH201209T-170Y-S	17	0.03	3000
FBH201209T-310Y-S	31	0.03	3000
FBH201209T-470Y-S	47	0.03	3000
FBH201209T-520Y-S	52	0.03	3000
FBH201209T-600Y-S	60	0.04	3000
FBH201209T-800Y-S	80	0.04	3000
FBH201209T-101Y-S	100	0.04	3000
FBH201209T-121Y-S	120	0.05	3000
FBH201209T-221Y-S	220	0.05	3000
FBH201209T-301Y-S	300	0.05	3000
FBH201209T-601Y-S	600	0.10	2000
FBH201209T-102Y-S	1000	0.30	1000
FBH201209T-152Y-S	1500	0.30	1000
3216			
FBH321611T-190Y-S	19	0.03	3000
FBH321611T-310Y-S	31	0.03	3000
FBH321611T-520Y-S	52	0.03	3000
FBH321611T-700Y-S	70	0.04	3000
FBH321611T-101Y-S	100	0.04	3000
FBH321611T-151Y-S	150	0.05	3000
FBH321611T-301Y-S	300	0.06	3000
FBH321611T-501Y-S	500	0.07	2500
FBH321611T-601Y-S	600	0.08	2000
FBH321611T-102Y-S	1000	0.30	1000
3225			
FBH322513T-520Y-S	52	0.03	3000
FBH322513T-600Y-S	60	0.03	3000
4516			
FBH451616T-600Y-S	60	0.04	3000
FBH451616T-800Y-S	80	0.04	3000
FBH451616T-101Y-S	100	0.04	3000
FBH451616T-181Y-S	180	0.04	3000
FBH51616T-102Y-S	1000	0.09	2000
4532			
FBH453215T-121Y-S	120	0.04	3000
FBH453215T-151Y-S	150	0.04	3000

* TEST EQUIPMENT: E4991A IMPEDANCE ANALYZER

: E4991A

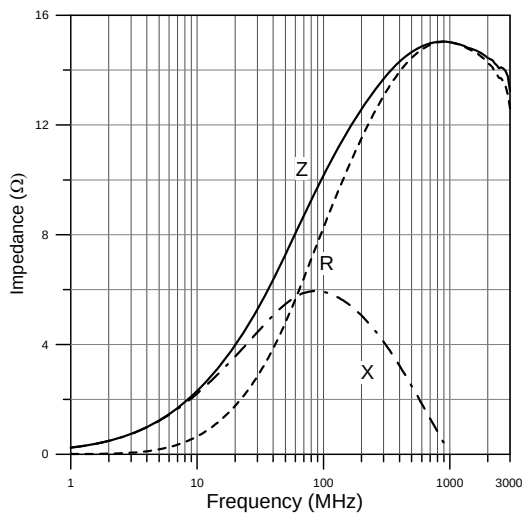
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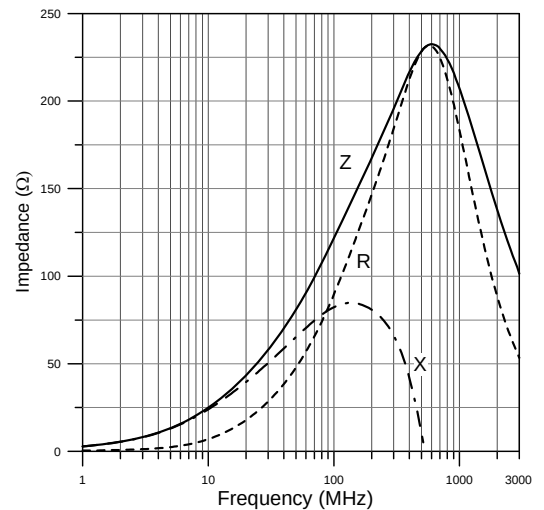
TYPICAL ELECTRICAL CHARACTERISTICS

Z R X vs. FREQUENCY CHARACTERISTICS Z,R,X VS.

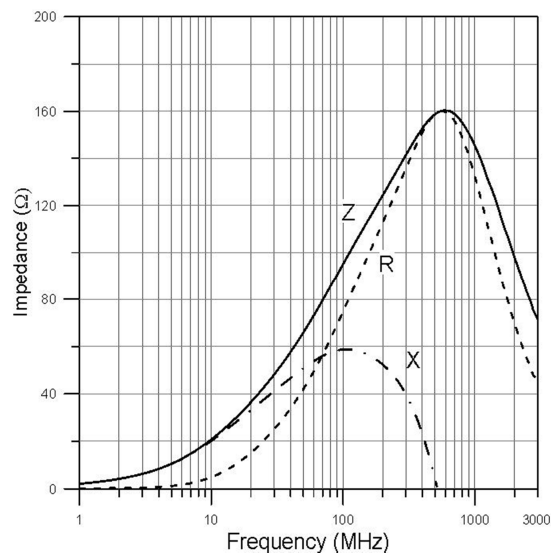
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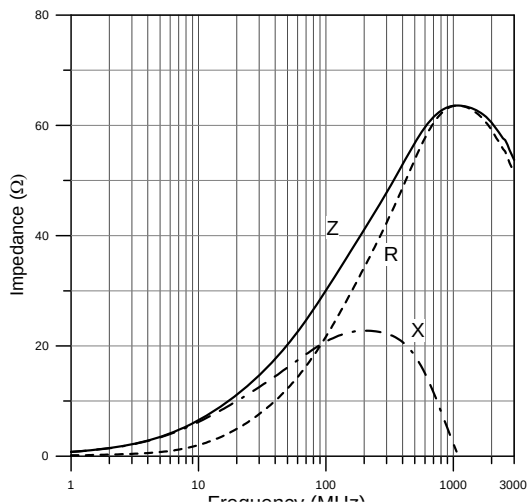
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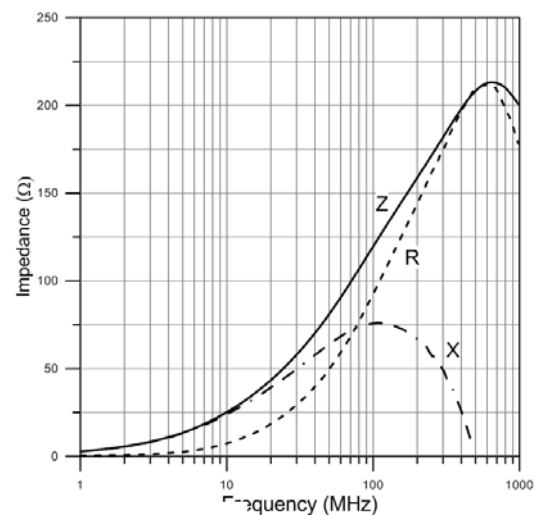
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FBH160808T-300Y-S



FBH160808T-100Y-H



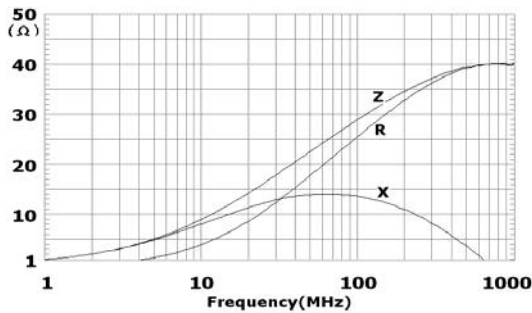
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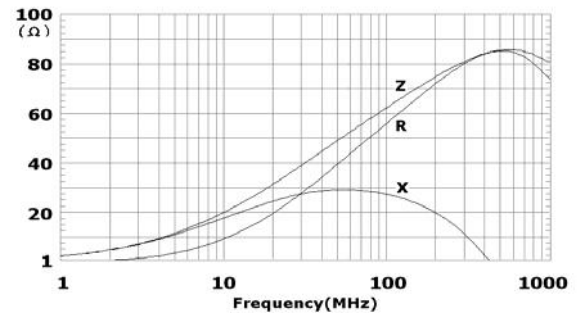
TYPICAL ELECTRICAL CHARACTERISTICS

Z R X vs. FREQUENCY CHARACTERISTICS Z,R,X VS.

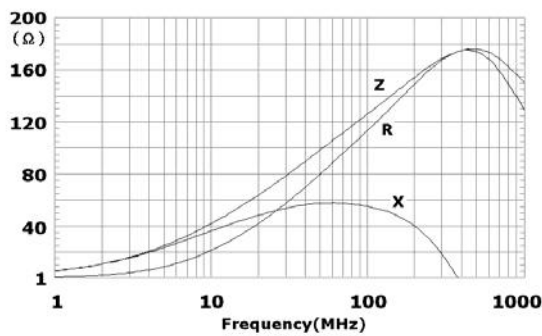
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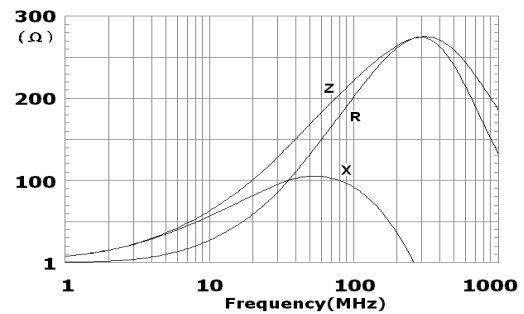
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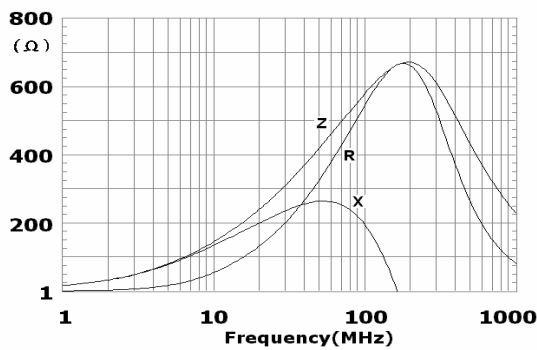
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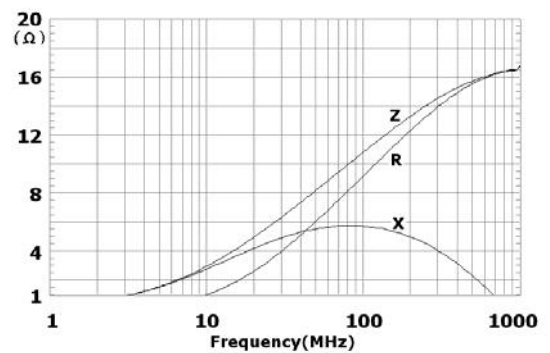
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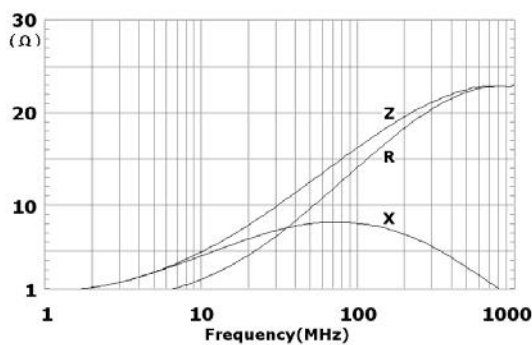
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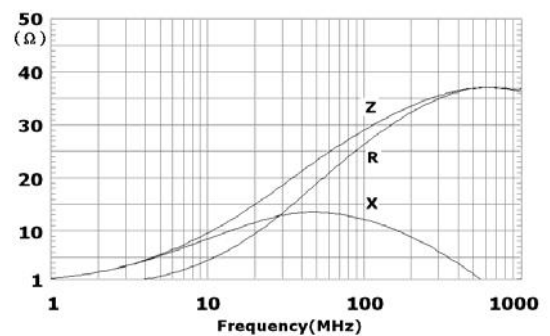
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FBH201209T-310Y-S



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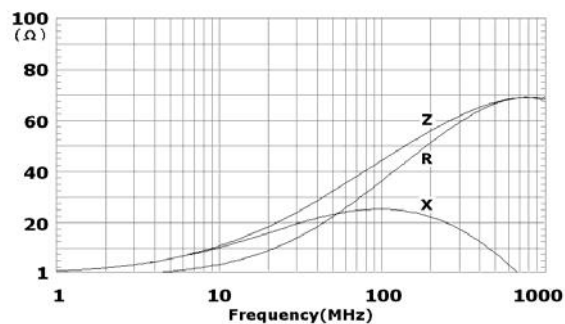
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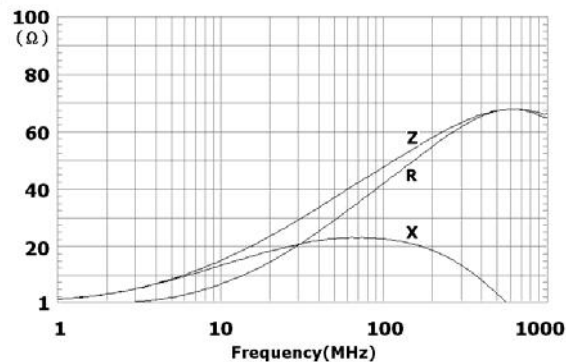
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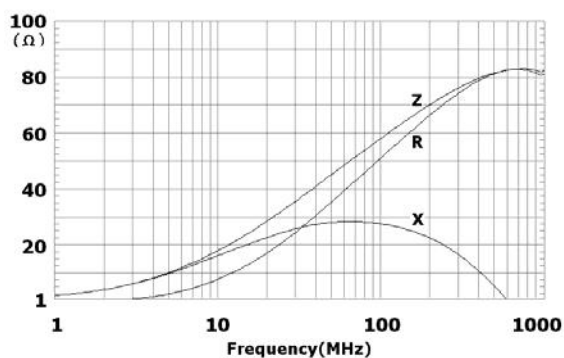
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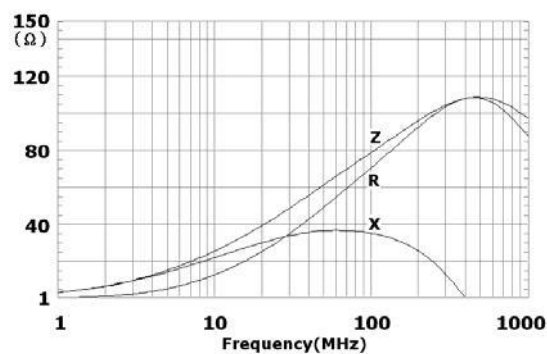
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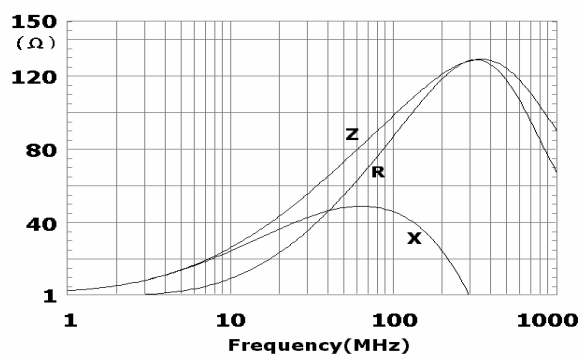
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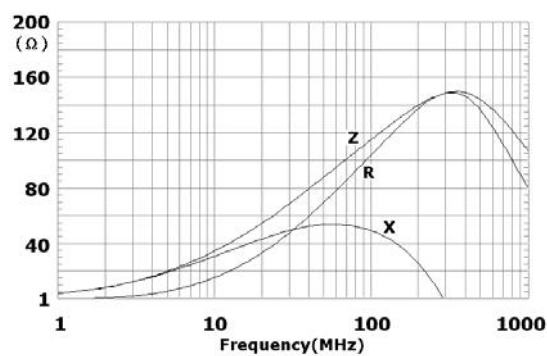
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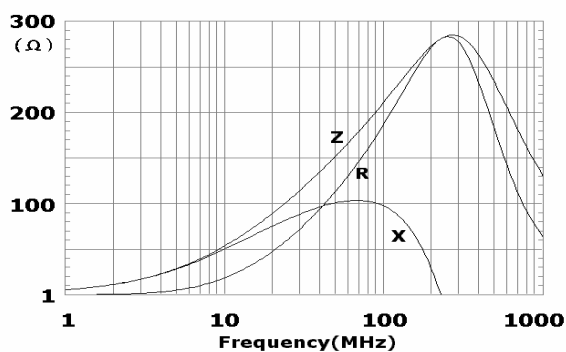
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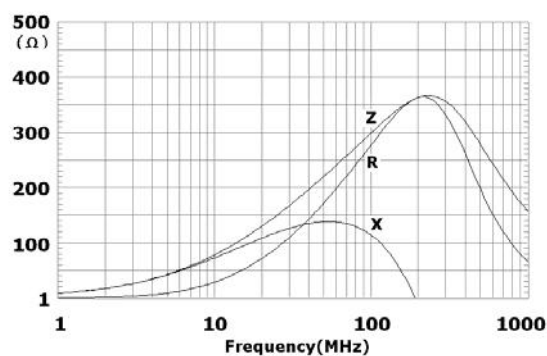
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FBH201209T-301Y-S



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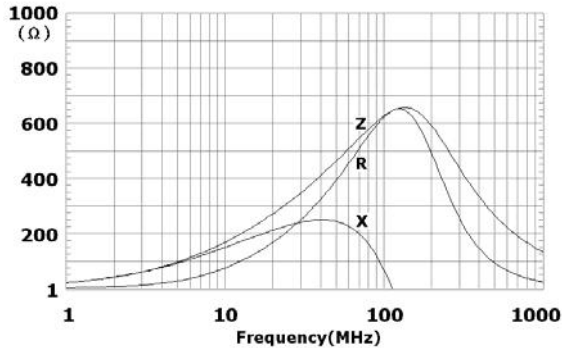
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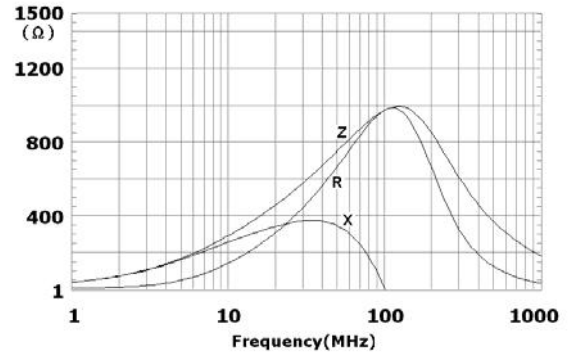
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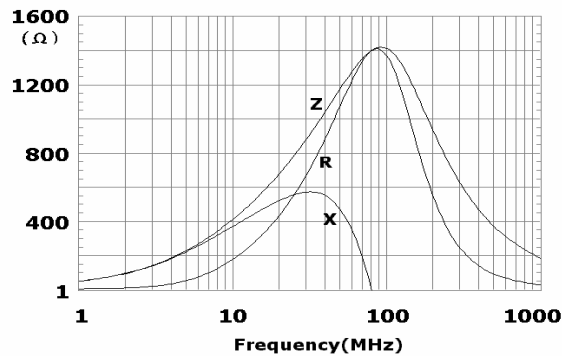
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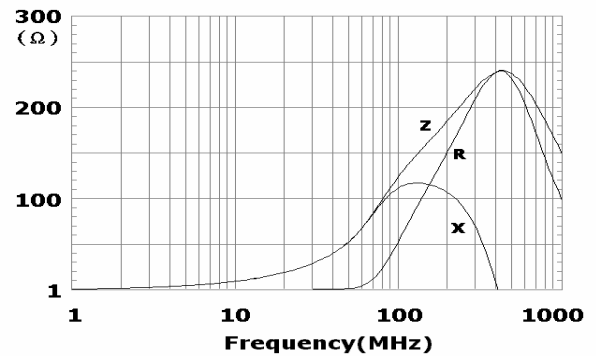
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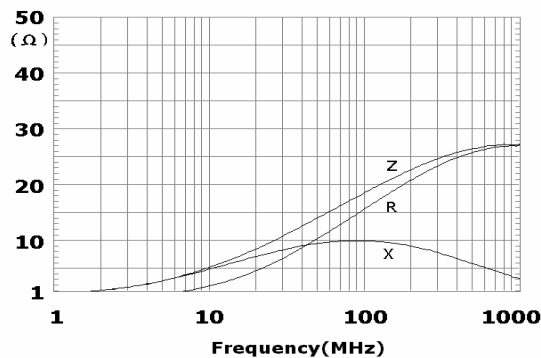
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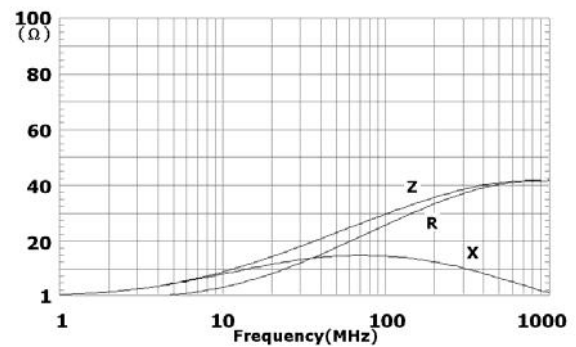
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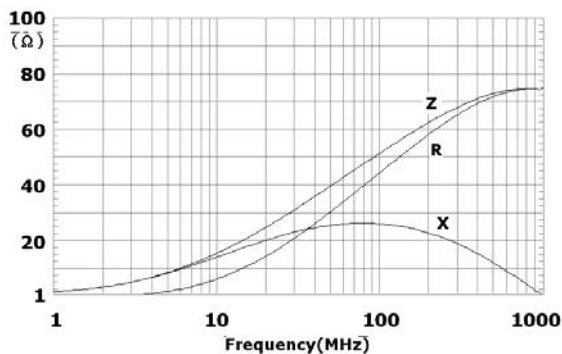
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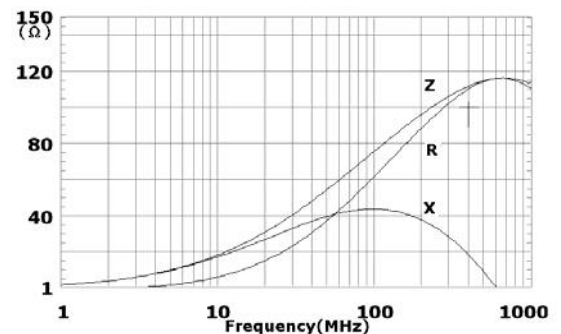
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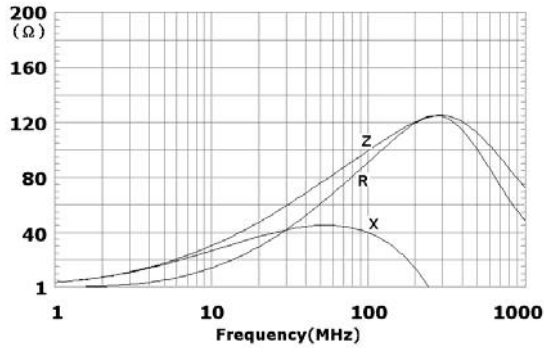
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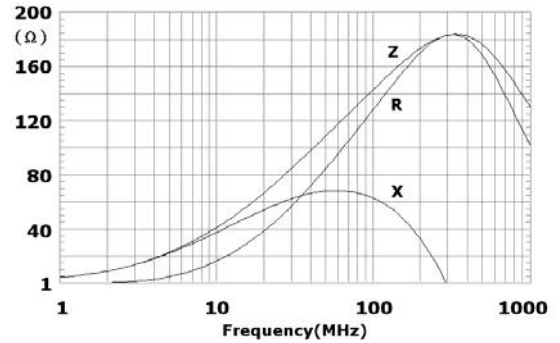
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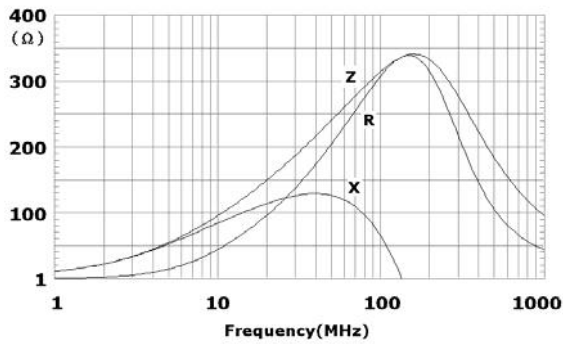
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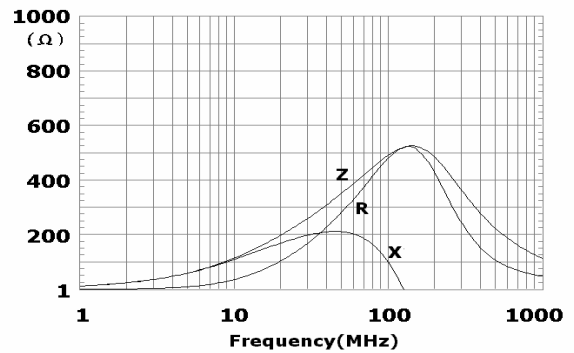
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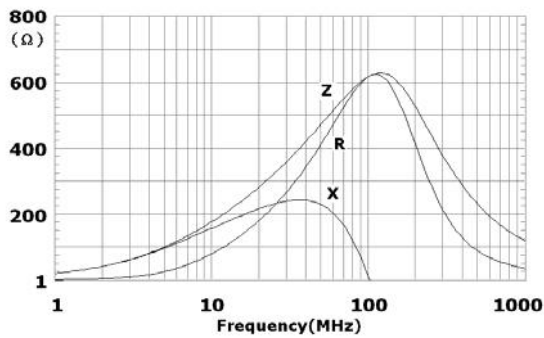
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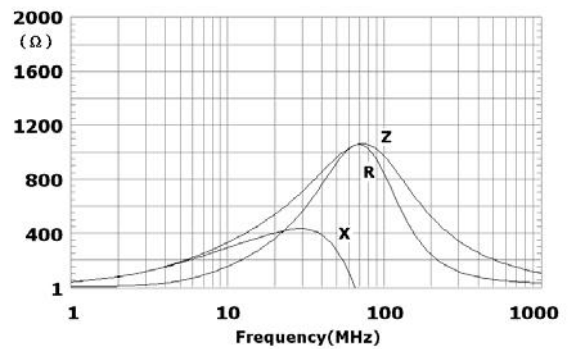
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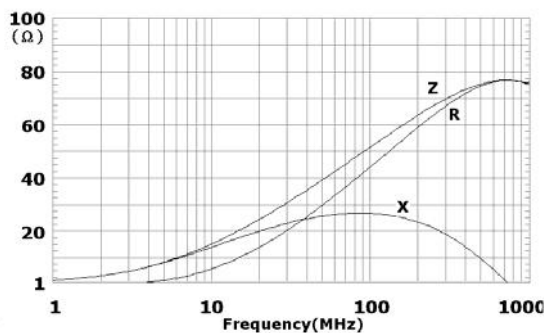
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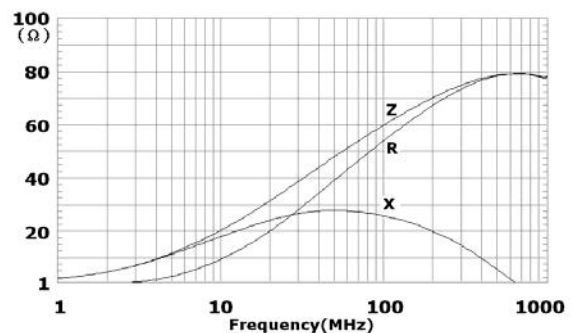
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FBH322513T-520Y-S



FBH322513T-600Y-S



MULTILAYER CHIP SUPPRESSORS (CHIP BEADS) **Cal-Chip** Electronics Inc.

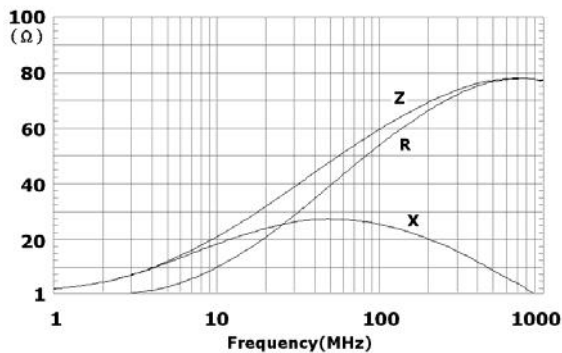
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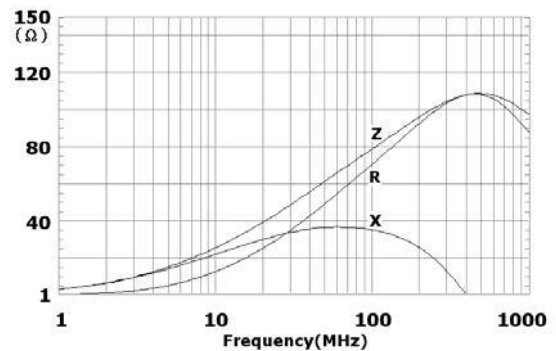
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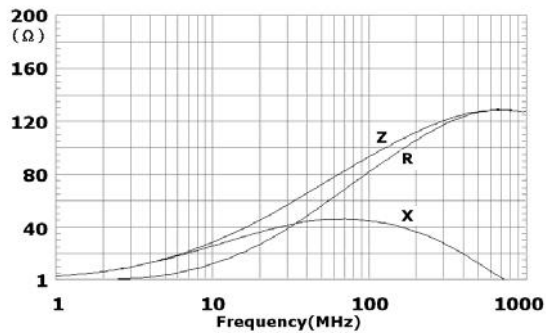
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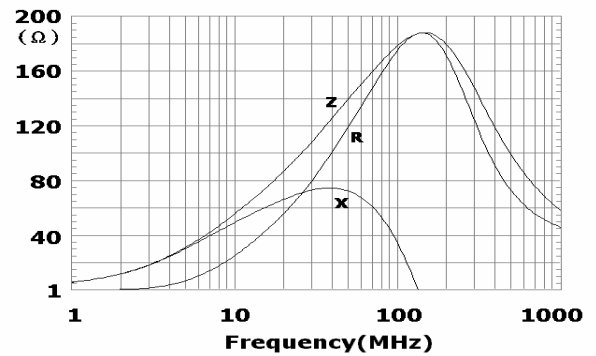
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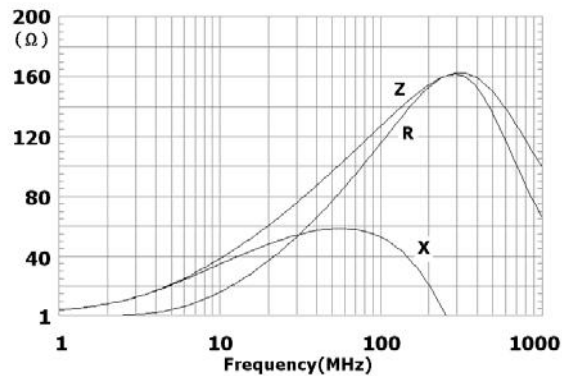
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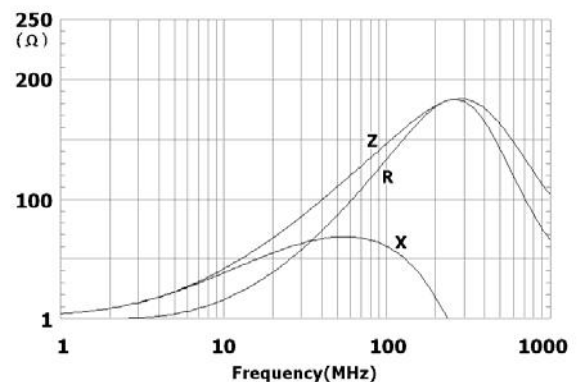
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FBH453215 T -121 Y -S



FBH453215 T -151 Y -S



FBH451616 T -102 Y -S RDC09

