

Chip Ferrite Bead General Type

SIM05-38 series

MERITEK

FEATURE

- Operating Temperature: -55 ~ +125°C (Including self-temperature rise)
- Monolithic Inorganic Material Construction
- Low DC Resistance
- Noise reduction solution for Signal Line
- Excellent Solderability and Heat Resistance



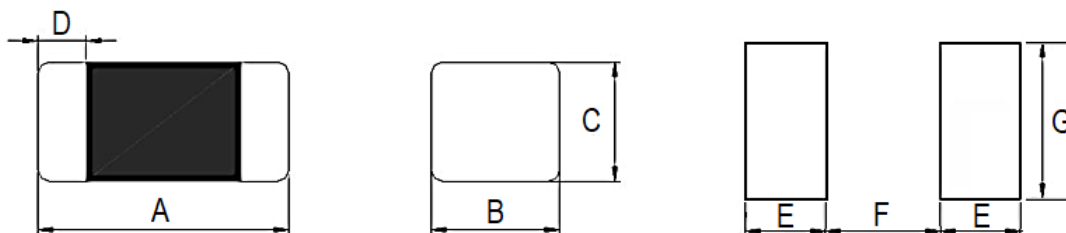
PART NUMBERING SYSTEM

SIM 05 170 Y A30 38
(1) (2) (3) (4) (5) (6)



No	item	Code	Description	
(1)	Product Code	SIM	Signal Chip Inductor, Multi-Layer Chip Ferrite Bead Type	
(2)	Dimension	05	05: 0805, 2.0x1.25mm	See Dimension Table
(3)	Impedence	170	170: 17Ω	First two: Significant, Third: Multiplier
(4)	Tolerance	Y	Y: ±25%	-25% ~ +25%
(5)	Rated Current	A30	A30: 0.3A	Max Current, 'A' denotes decimal point
(6)	Series Code	38	Chip Ferrite Bead	Internal Control Code

DIMENSIONS



Size Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
SIM01 (0201)	0.60±0.03	0.30±0.03	0.30±0.03	0.1~0.2	0.35	0.30	0.40
SIM02 (0402)	1.00±0.10	0.50±0.10	0.50±0.10	0.1~0.3	0.50	0.40	0.60
SIM03 (0603)	1.60±0.15	0.80±0.15	0.80±0.15	0.2~0.6	0.80	0.85	0.95
SIM05 (0805)	2.00±0.20	1.25±0.20	0.85±0.20	0.2~0.8	1.05	1.00	1.45
SIM06 (1206)	3.20±0.20	1.60±0.20	1.10±0.20	0.4~1.0	1.05	2.20	1.80
SIM10 (1210)	3.20±0.20	2.50±0.20	1.30±0.20	0.6~1.0	1.05	2.20	2.70
SIM86 (1806)	4.50±0.20	1.60±0.20	1.60±0.20	0.6~1.0	1.05	3.30	1.80
SIM82 (1812)	4.50±0.20	3.20±0.20	1.50±0.20	0.6~1.0	1.05	3.30	3.40

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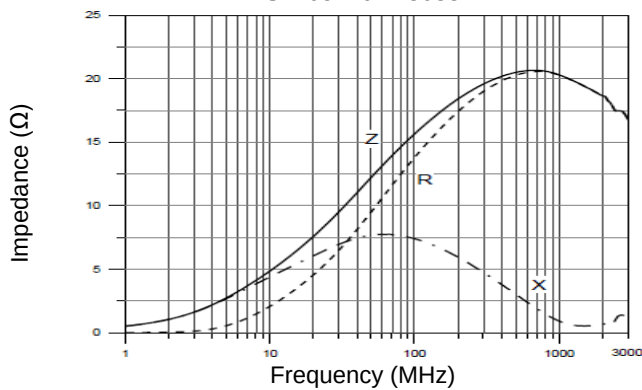
ELECTRICAL CHARACTERISTICS

Size	Part Number	Impedance (Ω)	Tolerance (%)	Test Frequency (MHz)	DCR (Ω) Max	Rated Current (mA) Max
0805	SIM05170YA3038	17	±25	100	0.10	300
	SIM05260YA3038	26	±25	100	0.10	300
	SIM05310YA3038	31	±25	100	0.10	300
	SIM05520YA3038	52	±25	100	0.15	300
	SIM05600YA3038	60	±25	100	0.15	300
	SIM05800YA30A38	80	±25	100	0.15	300
	SIM05101YA3038	100	±25	100	0.20	300
	SIM05121YA30A38	120	±25	100	0.20	300
	SIM05151YA3038	150	±25	100	0.20	300
	SIM05221YA3038	220	±25	100	0.25	300
	SIM05301YA3038	300	±25	100	0.25	300
	SIM05401YA3038	400	±25	100	0.30	300
	SIM05531YA3038	530	±25	100	0.35	300
	SIM05601YA3038	600	±25	100	0.35	300
	SIM05102YA3038	1000	±25	100	0.45	300
	SIM05152YA3038	1500	±25	100	0.70	300
	SIM05050YA5038	5	±25	100	0.07	500
	SIM05300YA3038	30	±25	100	0.15	300
	SIM05600YA30B38	60	±25	100	0.15	300
	SIM05750YA3038	75	±25	100	0.20	300
	SIM05101YA30B38	100	±25	100	0.20	300
	SIM05121YA30B38	120	±25	100	0.20	300
	SIM05221YA2038	220	±25	100	0.25	200
	SIM05301YA2038	300	±25	100	0.25	200
	SIM05601YA20B38	600	±25	100	0.25	200
	SIM05751YA20B38	750	±25	100	0.30	200
	SIM05102YA20B38	1000	±25	100	0.30	200
	SIM05152YA20B38	1500	±25	100	0.35	200
	SIM05182YA2038	1800	±25	100	0.40	200
	SIM05202YA20B38	2000	±25	100	0.40	200
	SIM05222YA2038	2200	±25	100	0.50	200
	SIM05252YA20B38	2500	±25	100	0.60	200
	SIM05272YA2038	2700	±25	100	0.60	200
	SIM05800YA30K38	80	±25	100	0.30	300
	SIM05601YA20K38	600	±25	100	0.35	200
	SIM05751YA20K38	750	±25	100	0.35	200
	SIM05102YA20K38	1000	±25	100	0.40	200
	SIM05122YA2038	1200	±25	100	0.40	200
	SIM05152YA20K38	1500	±25	100	0.45	200
	SIM05202YA20K38	2000	±25	100	0.60	200
	SIM05252YA20K38	2500	±25	100	0.70	200
	SIM05050YA50H38	5	±25	100	0.07	500
	SIM05070YA5038	7	±25	100	0.07	500
	SIM05121YA30H38	120	±25	100	0.35	300
	SIM05601YA20H38	600	±25	100	0.65	200

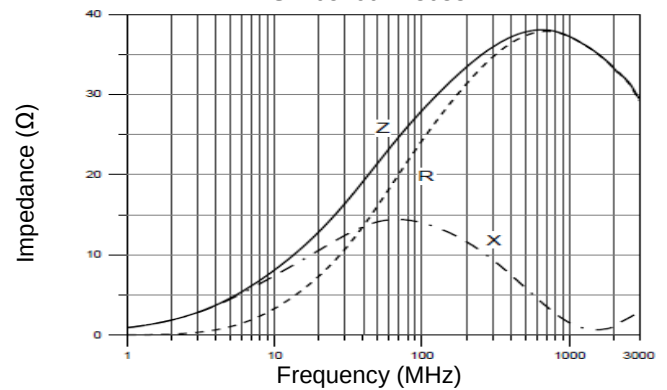
Notes: 1. Maximum Rated Current: The DC current value having temperature increased 40°C after thru DC current 2 hours at ambient temperature.

CHARICTERISTIC CURVES

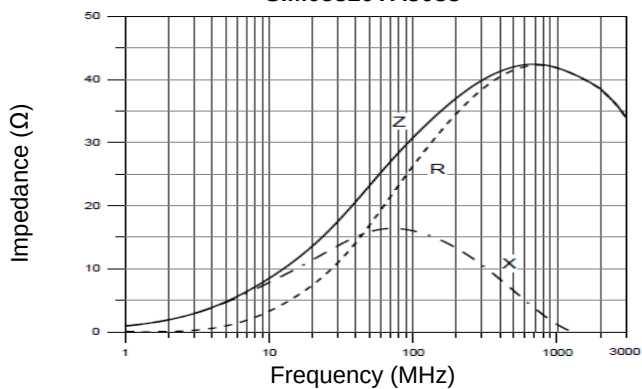
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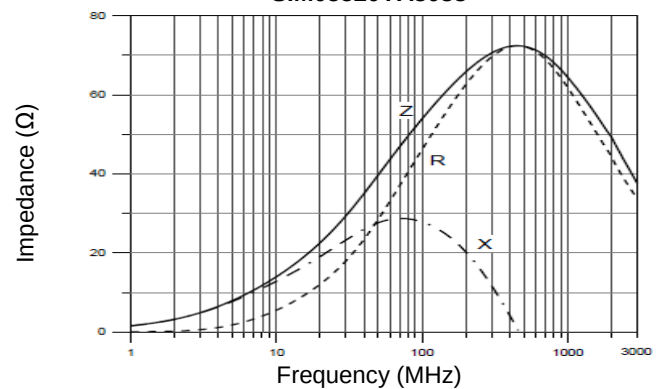
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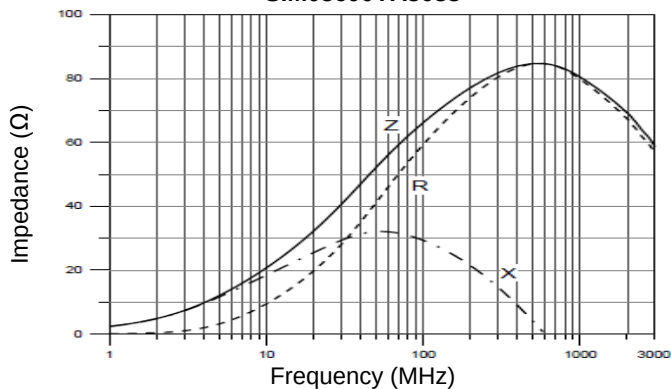
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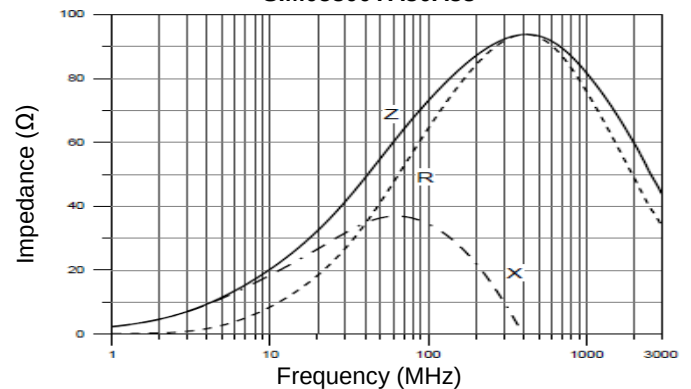
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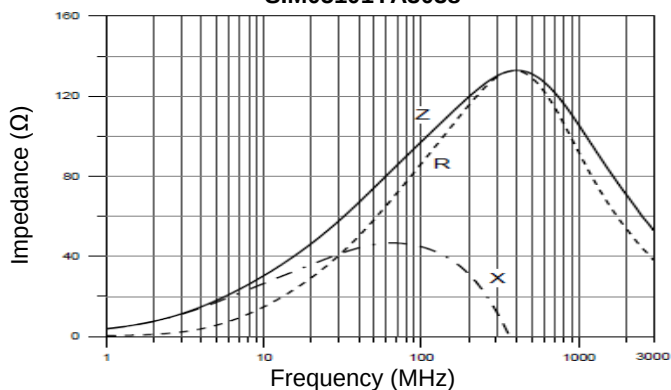
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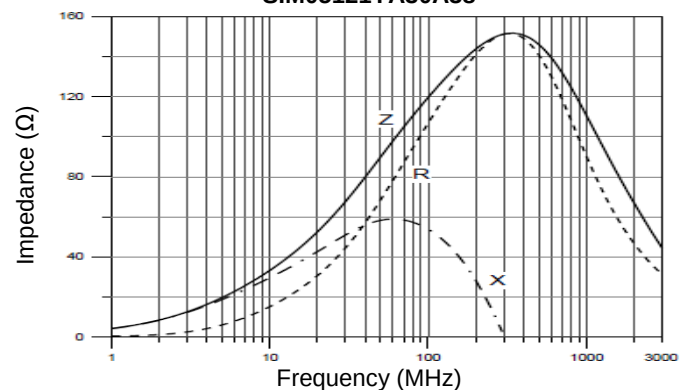
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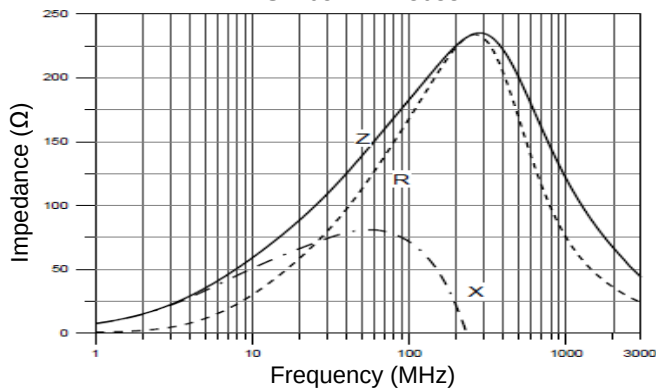


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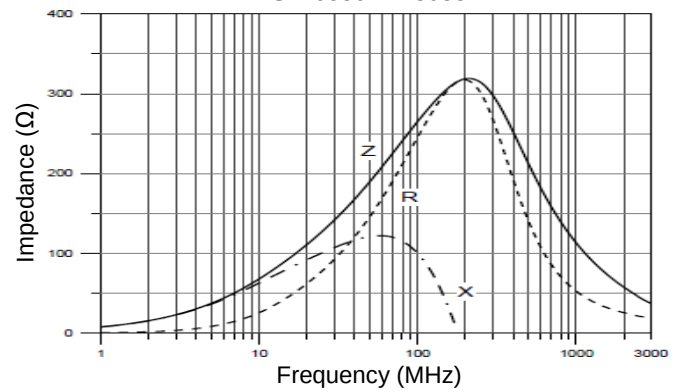


CHARICTERISTIC CURVES

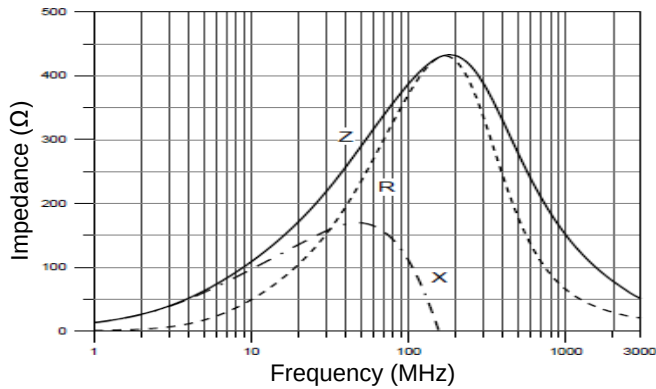
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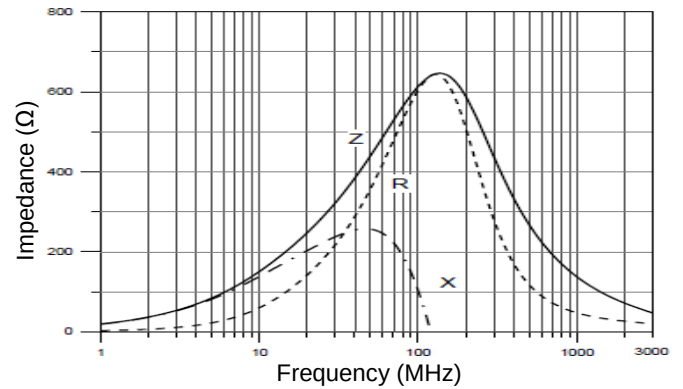
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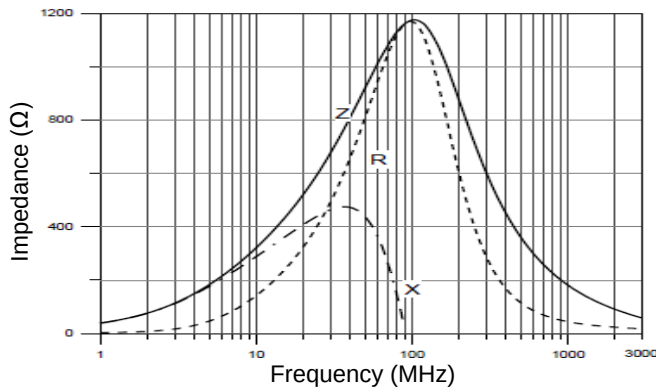
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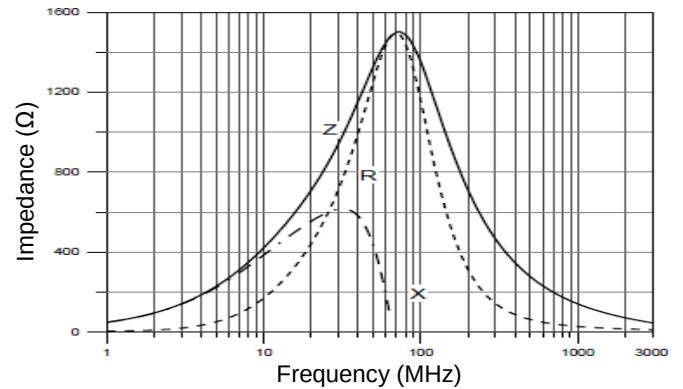
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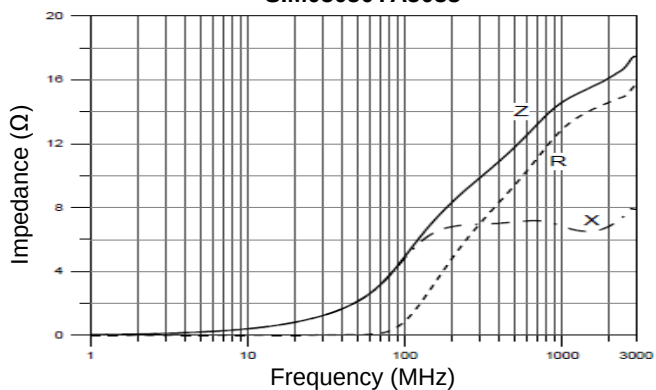
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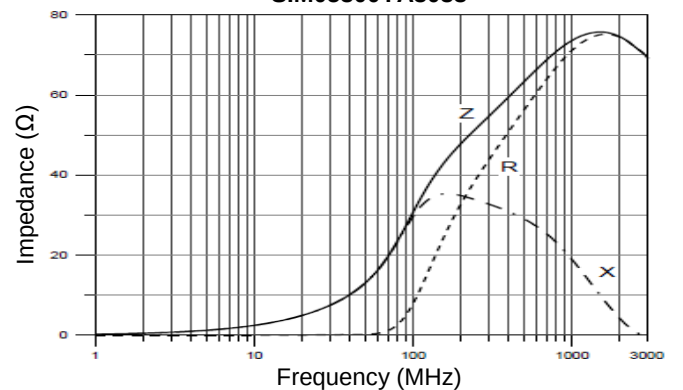
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SIM05050YA5038

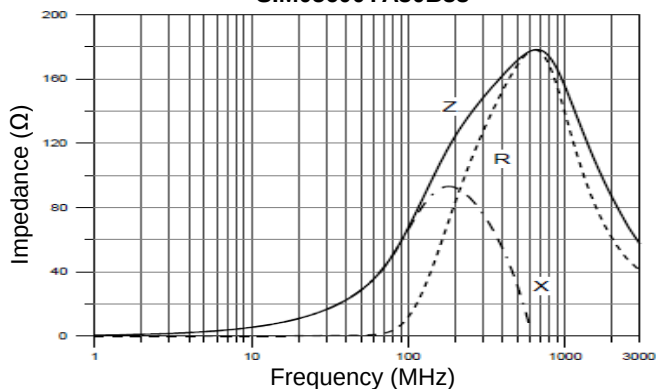


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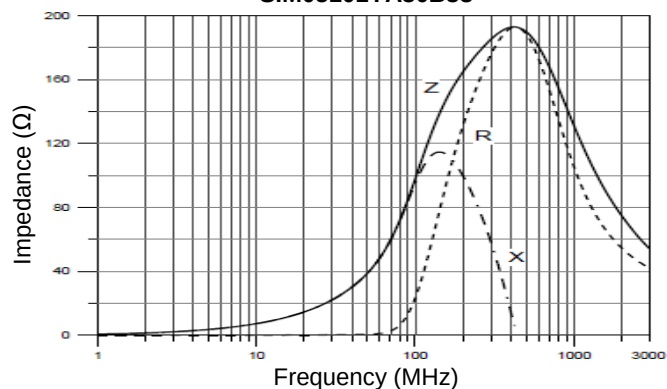


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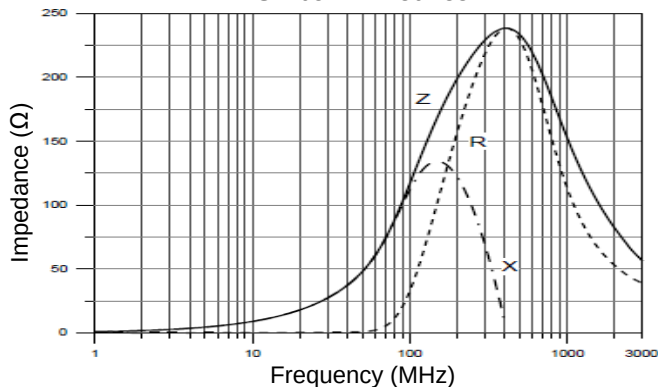
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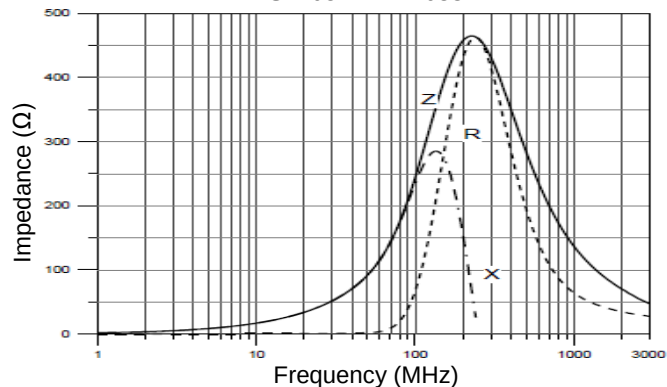
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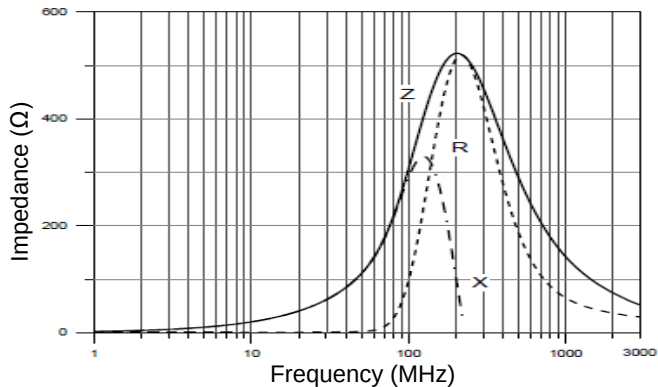
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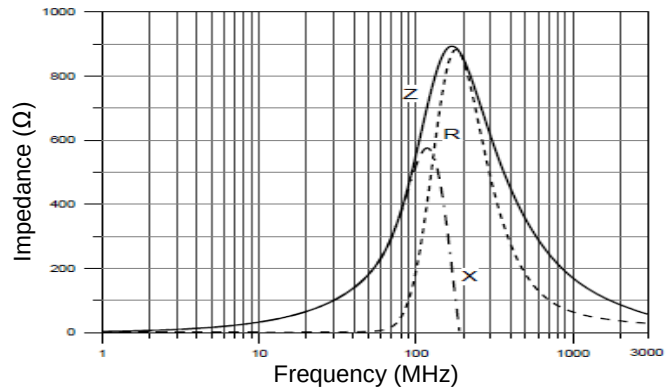
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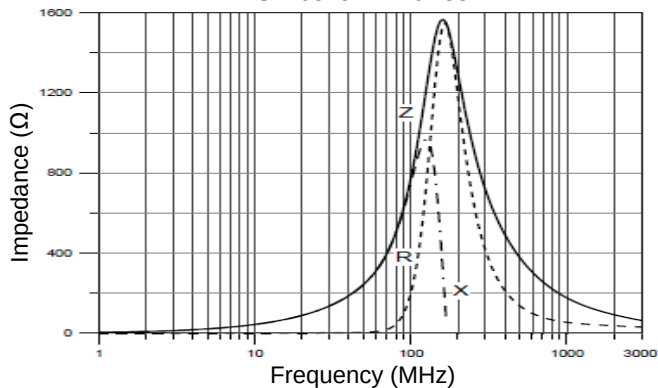
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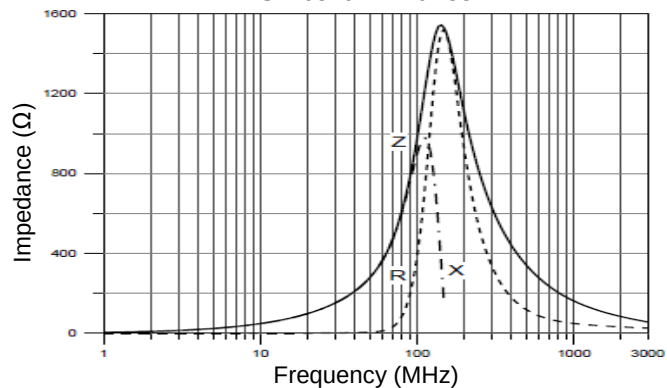
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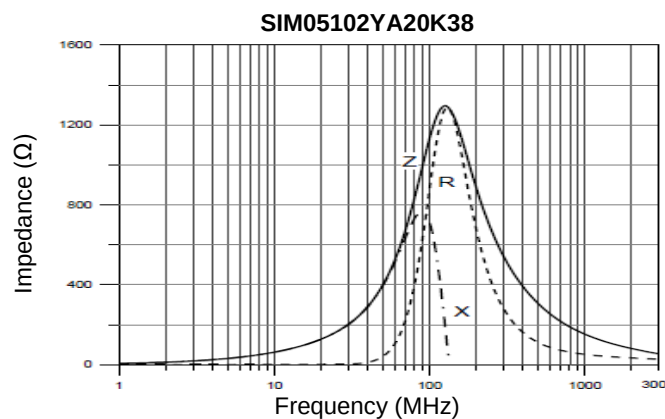
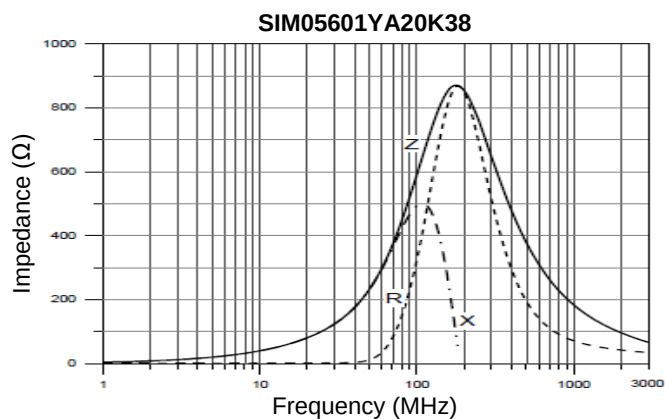
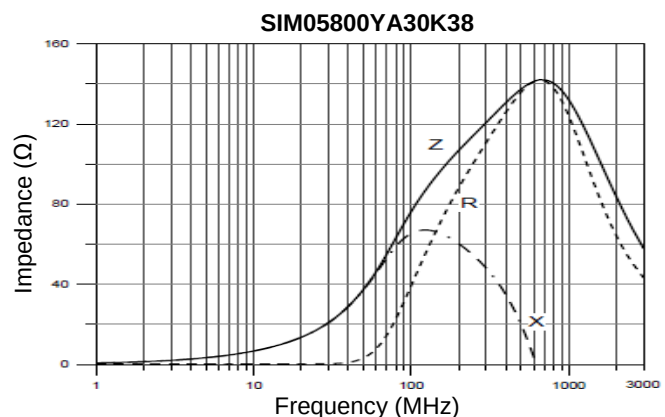
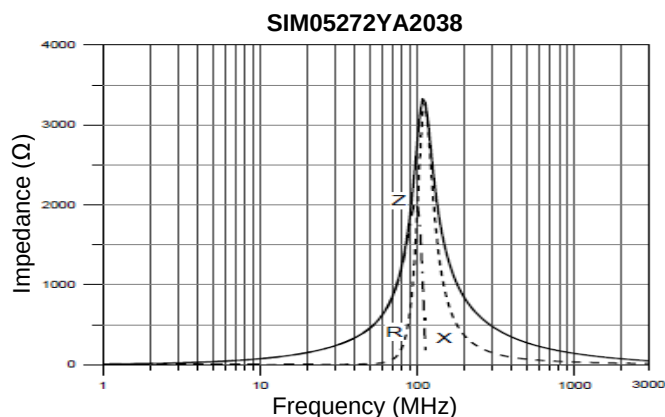
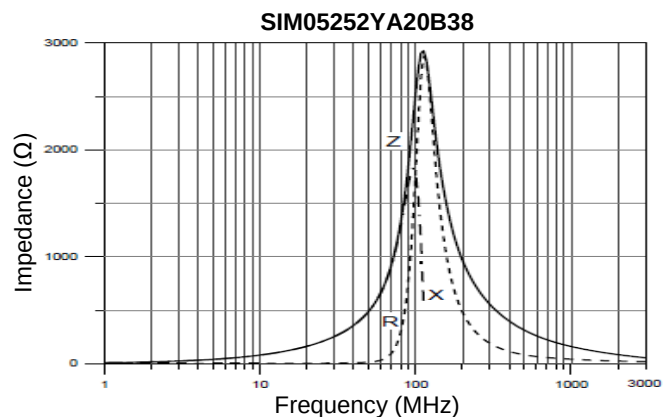
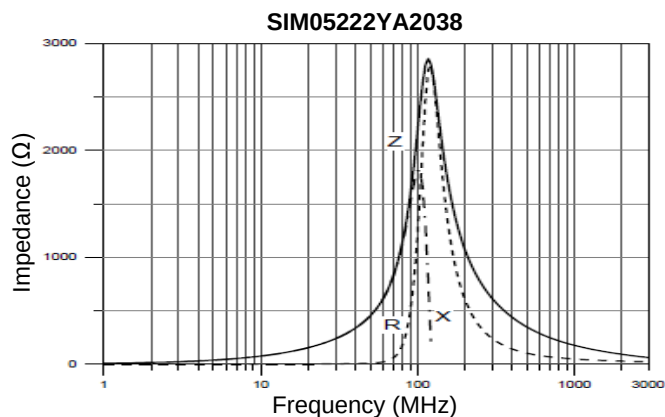
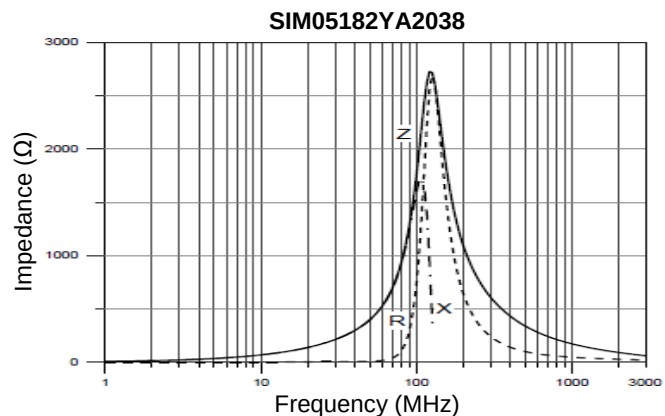
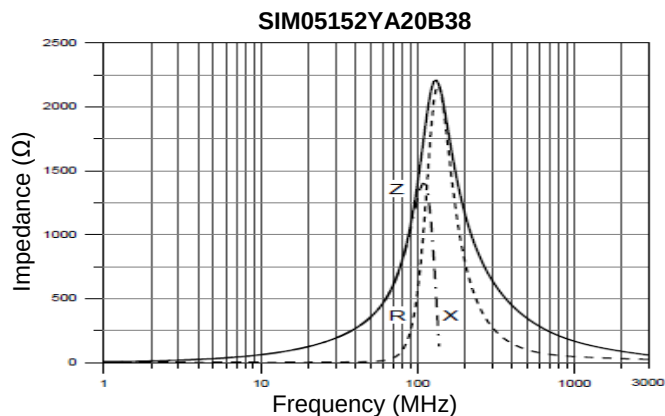
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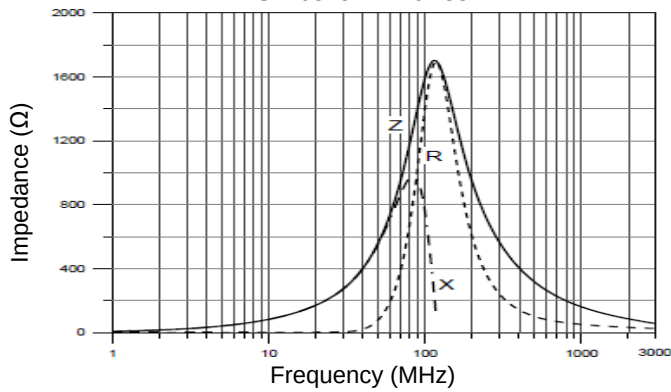


CHARICTERISTIC CURVES

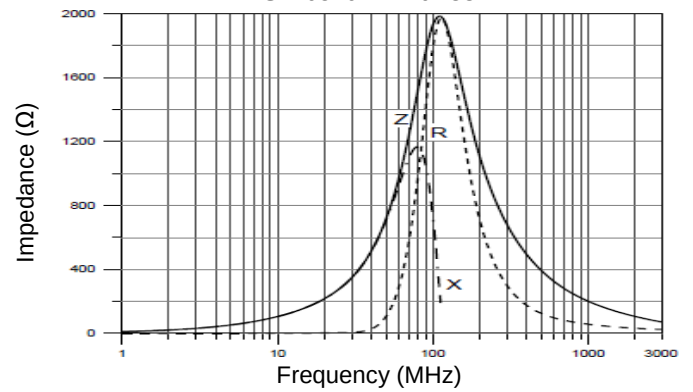


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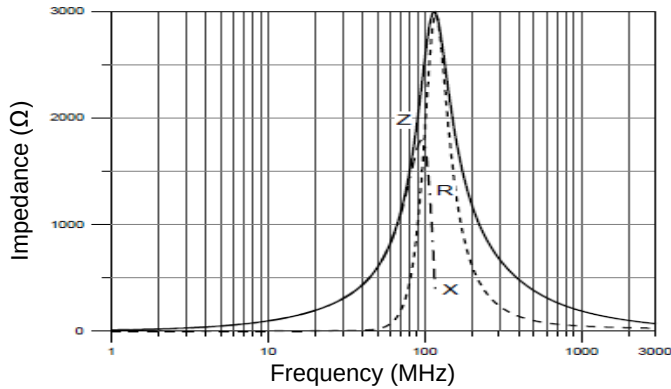
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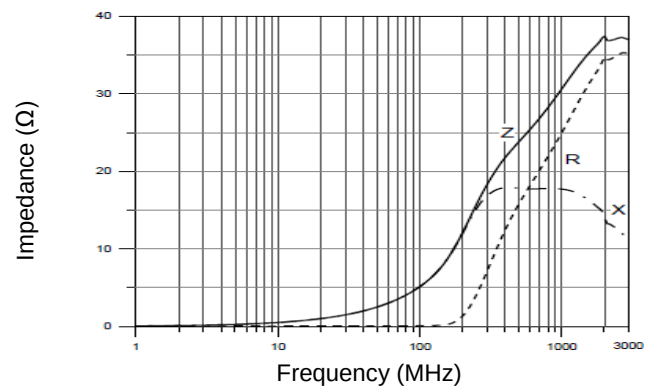
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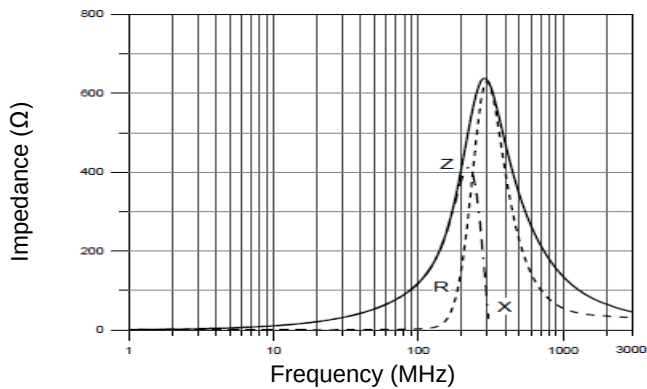
SIM05252YA20K38



SIM05050YA50H38



SIM05121YA30H38



SIM05601YA20H38

