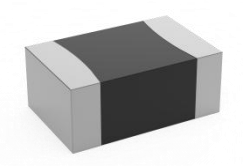
FEATURES



● Internal silver printed layers and magnetic shielded structures to minimize crosstalk.
● Can be used in a wide range of frequency to suppress EMI.
● Smaller DC resistance and larger allowable current.
● Operating temperature:-55℃~+125℃.

APPLICATIONS

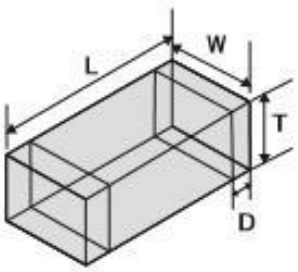
● Noise suppression for power line or large current signal of electric equipment such as computers and peripheral devices, DVD cameras, LCD TVs, communication equipment, OA equipment, etc.

PRODUCT IDENTIFICATION

MCB	1608	S	601	T
(1)	(2)	(3)	(4)	(5)

(1) Series name
(2) Product dimensions
(3) Feature Type
(4) Impedance Value (100:10Ω，101:100Ω，102:1000Ω)
(5) Package(T:Tape&Reel)

SHAPE AND DIMENSIONS



Unit:mm

Series	L	W	T	D
MCB0603	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05
MCB1005	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.10
MCB1608	1.6±0.20	0.8±0.20	0.8±0.20	0.3±0.20
MCB2012	2.0±0.20	1.2±0.20	0.9±0.20	0.5±0.30
MCB3216	3.2±0.20	1.6±0.20	0.9±0.20	0.5±0.30
MCB3225	3.2±0.20	2.5±0.20	1.3±0.20	0.5±0.30
MCB4516	4.5±0.20	1.6±0.20	1.6±0.20	0.5±0.30
MCB4532	4.5±0.20	3.2±0.20	1.5±0.20	0.5±0.30

SPECIFICATIONS

MCB0603 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
MCB0603S100T	10	± 5 Ω	100	0.05	1000
MCB0603S800T	80	±25%	100	0.18	500
MCB0603S121T	120	±25%	100	0.23	450
MCB0603S241T	240	±25%	100	0.38	350
MCB0603S601T	600	±25%	100	0.85	250
MCB0603S102T	1000	±25%	100	1.25	200

MCB1005 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
MCB1005S000T	0	0～11Ω	100	0.04	1800
MCB1005S050T	5	12～25Ω	100	0.04	1800
MCB1005S070T	7	±25%	100	0.04	1800
MCB1005S090T	9	±25%	100	0.04	1800
MCB1005S110T	11	±25%	100	0.04	1800
MCB1005S150T	15	±25%	100	0.04	1800
MCB1005S190T	19	±25%	100	0.06	1800
MCB1005S260T	26	±25%	100	0.06	1800
MCB1005S310T	31	±25%	100	0.08	1800
MCB1005S600T	60	±25%	100	0.13	1000
MCB1005S800T	80	±25%	100	0.17	1000
MCB1005S101T	100	±25%	100	0.20	900
MCB1005S121T	120	±25%	100	0.25	700
MCB1005S151T	150	±25%	100	0.25	700
MCB1005S181T	180	±25%	100	0.30	700
MCB1005S201T	200	±25%	100	0.30	700
MCB1005S221T	220	±25%	100	0.30	700
MCB1005S301T	300	±25%	100	0.40	400
MCB1005S501T	500	±25%	100	0.60	300
MCB1005S601T	600	±25%	100	0.60	300
MCB1005S801T	800	±25%	100	0.80	250
MCB1005S102T	1000	±25%	100	0.90	250
MCB1005S122T	1200	±25%	100	1.10	150

MCB1608 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max.(mA)
MCB1608S000T	0	0～15Ω	100	0.02	3000
MCB1608S050T	5	0～15Ω	100	0.02	3000
MCB1608S070T	7	0～11Ω	100	0.02	3000
MCB1608S090T	9	5～13Ω	100	0.02	3000
MCB1608S110T	11	7～15Ω	100	0.02	3000
MCB1608S150T	15	9～21Ω	100	0.03	3000
MCB1608S190T	19	12～25Ω	100	0.03	3000
MCB1608S260T	26	±25%	100	0.03	3000
MCB1608S300T	30	±25%	100	0.03	3000
MCB1608S310T	31	±25%	100	0.03	3000
MCB1608S500T	50	±25%	100	0.10	1500
MCB1608S600T	60	±25%	100	0.10	1500
MCB1608S700T	70	±25%	100	0.10	1500
MCB1608S800T	80	±25%	100	0.10	1500
MCB1608S101T	100	±25%	100	0.12	1400
MCB1608S121T	120	±25%	100	0.14	1300
MCB1608S151T	150	±25%	100	0.15	1200
MCB1608S181T	180	±25%	100	0.15	1200
MCB1608S221T	220	±25%	100	0.18	1200
MCB1608S301T	300	±25%	100	0.20	1200
MCB1608S501T	500	±25%	100	0.30	1000
MCB1608S601T	600	±25%	100	0.30	1000
MCB1608S801T	800	±25%	100	0.35	500
MCB1608S102T	1000	±25%	100	0.40	500
MCB1608S122T	1200	±25%	100	0.45	500
MCB1608S152T	1500	±25%	100	0.55	400
MCB1608S182T	1800	±25%	100	0.55	400
MCB1608S202T	2000	±25%	100	0.60	400
MCB1608S252T	2500	±25%	100	0.65	400

MCB2012 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max. (mA)
MCB2012S000T	0	0～15Ω	100	0.02	3000
MCB2012S050T	5	0～15Ω	100	0.02	3000
MCB2012S070T	7	0～11Ω	100	0.02	3000
MCB2012S090T	9	5～13Ω	100	0.02	3000
MCB2012S110T	11	7～15Ω	100	0.02	3000
MCB2012S150T	15	9～21Ω	100	0.02	3000
MCB2012S190T	19	12～25Ω	100	0.02	3000
MCB2012S300T	30	±25%	100	0.04	3000
MCB2012S310T	31	±25%	100	0.04	3000
MCB2012S360T	36	±25%	100	0.04	3000
MCB2012S600T	60	±25%	100	0.05	3000
MCB2012S700T	70	±25%	100	0.06	3000
MCB2012S800T	80	±25%	100	0.06	3000
MCB2012S101T	100	±25%	100	0.08	2500
MCB2012S121T	120	±25%	100	0.08	2500
MCB2012S151T	150	±25%	100	0.10	2500
MCB2012S181T	180	±25%	100	0.12	2000
MCB2012S201T	200	±25%	100	0.12	2000
MCB2012S221T	220	±25%	100	0.13	2000
MCB2012S301T	300	±25%	100	0.13	2000
MCB2012S331T	330	±25%	100	0.15	2000
MCB2012S501T	500	±25%	100	0.22	1500
MCB2012S601T	600	±25%	100	0.22	1500
MCB2012S801T	800	±25%	100	0.25	1000
MCB2012S102T	1000	±25%	100	0.25	1000
MCB2012S122T	1200	±25%	100	0.28	800
MCB2012S152T	1500	±25%	100	0.40	700
MCB2012S202T	2000	±25%	100	0.40	700
MCB2012S222T	2200	±25%	100	0.40	700
MCB2012S252T	2500	±25%	100	0.45	600

MCB3216 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max.(mA)
MCB3216S000T	0	0～15Ω	100	0.04	4000
MCB3216S050T	5	0～15Ω	100	0.04	4000
MCB3216S070T	7	0～11Ω	100	0.04	4000
MCB3216S090T	9	5～13Ω	100	0.04	4000
MCB3216S110T	11	7～15Ω	100	0.04	4000
MCB3216S150T	15	9～21Ω	100	0.04	3000
MCB3216S190T	19	12～25Ω	100	0.04	3000
MCB3216S260T	26	±25%	100	0.04	3000
MCB3216S280T	28	±25%	100	0.04	3000
MCB3216S300T	30	±25%	100	0.04	3000
MCB3216S310T	31	±25%	100	0.04	3000
MCB3216S500T	50	±25%	100	0.04	3000
MCB3216S600T	60	±25%	100	0.04	3000
MCB3216S700T	70	±25%	100	0.07	3000
MCB3216S800T	80	±25%	100	0.07	3000
MCB3216S101T	100	±25%	100	0.07	3000
MCB3216S121T	120	±25%	100	0.07	3000
MCB3216S151T	150	±25%	100	0.10	2500
MCB3216S181T	180	±25%	100	0.10	2500
MCB3216S221T	220	±25%	100	0.11	2500
MCB3216S301T	300	±25%	100	0.15	2000
MCB3216S501T	500	±25%	100	0.20	2000
MCB3216S601T	600	±25%	100	0.20	2000
MCB3216S801T	800	±25%	100	0.25	2000
MCB3216S102T	1000	±25%	100	0.25	2000
MCB3216S122T	1200	±25%	100	0.35	1500
MCB3216S152T	1500	±25%	100	0.45	500
MCB3216S182T	1800	±25%	100	0.60	500
MCB3216S202T	2000	±25%	100	0.70	300
MCB3216S252T	2500	±25%	100	0.90	200
MCB3216S302T	3000	±25%	100	0.90	200

MCB3225 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max.(mA)
MCB3225S000T	0	0～15Ω	100	0.03	5000
MCB3225S100T	10	7～15Ω	100	0.03	5000
MCB3225S110T	11	7～15Ω	100	0.03	5000
MCB3225S150T	15	9～21Ω	100	0.03	5000
MCB3225S190T	19	12～25Ω	100	0.03	5000
MCB3225S260T	26	±25%	100	0.03	5000
MCB3225S310T	31	±25%	100	0.03	5000
MCB3225S400T	40	±25%	100	0.03	5000
MCB3225S500T	50	±25%	100	0.03	5000
MCB3225S600T	60	±25%	100	0.03	5000
MCB3225S700T	70	±25%	100	0.03	5000
MCB3225S800T	80	±25%	100	0.03	5000
MCB3225S900T	90	±25%	100	0.04	4000
MCB3225S101T	100	±25%	100	0.06	4000
MCB3225S121T	120	±25%	100	0.06	4000
MCB3225S151T	150	±25%	100	0.08	4000
MCB3225S221T	220	±25%	100	0.08	3000
MCB3225S301T	300	±25%	100	0.08	3000
MCB3225S501T	500	±25%	100	0.12	3000
MCB3225S601T	600	±25%	100	0.18	2000
MCB3225S801T	800	±25%	100	0.23	2000
MCB3225S102T	1000	±25%	100	0.28	2000

MCB4516 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max.(mA)
MCB4516S190T	19	12～25Ω	100	0.015	6000
MCB4516S260T	26	±25%	100	0.020	6000
MCB4516S310T	31	±25%	100	0.020	6000
MCB4516S600T	60	±25%	100	0.025	6000
MCB4516S750T	75	±25%	100	0.040	6000
MCB4516S800T	80	±25%	100	0.050	3000
MCB4516S900T	90	±25%	100	0.060	3000
MCB4516S121T	120	±25%	100	0.060	3000
MCB4516S151T	150	±25%	100	0.060	3000
MCB4516S221T	220	±25%	100	0.080	2000
MCB4516S301T	300	±25%	100	0.090	2000
MCB4516S501T	500	±25%	100	0.200	1500
MCB4516S601T	600	±25%	100	0.200	1500

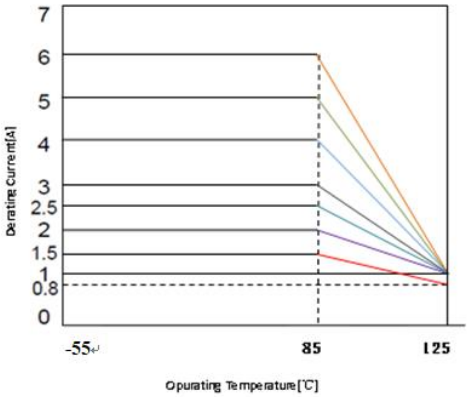
MCB4532 Series

Part Number	Impedance(Ω)	Tolerance(%)	Test Frequency（MHz）	DCR Max.(Ω)	Irms Max.(mA)
MCB4532S260T	26	±25%	100	0.02	5000
MCB4532S280T	28	±25%	100	0.02	5000
MCB4532S300T	30	±25%	100	0.02	5000
MCB4532S310T	31	±25%	100	0.02	5000
MCB4532S380T	38	±25%	100	0.02	5000
MCB4532S400T	40	±25%	100	0.02	4000
MCB4532S500T	50	±25%	100	0.02	4000
MCB4532S600T	60	±25%	100	0.02	4000
MCB4532S700T	70	±25%	100	0.02	4000
MCB4532S800T	80	±25%	100	0.02	4000
MCB4532S900T	90	±25%	100	0.02	4000
MCB4532S101T	100	±25%	100	0.03	4000
MCB4532S121T	120	±25%	100	0.03	4000
MCB4532S151T	150	±25%	100	0.04	3500
MCB4532S181T	180	±25%	100	0.06	3000
MCB4532S201T	200	±25%	100	0.06	3000
MCB4532S221T	220	±25%	100	0.06	2000
MCB4532S301T	300	±25%	100	0.06	2000
MCB4532S401T	400	±25%	100	0.08	1000
MCB4532S501T	500	±25%	100	0.10	1000
MCB4532S601T	600	±25%	100	0.10	1000

Note：

Irms：DC current that causes the temperature rise(ΔT=40℃) from 25℃ ambient.

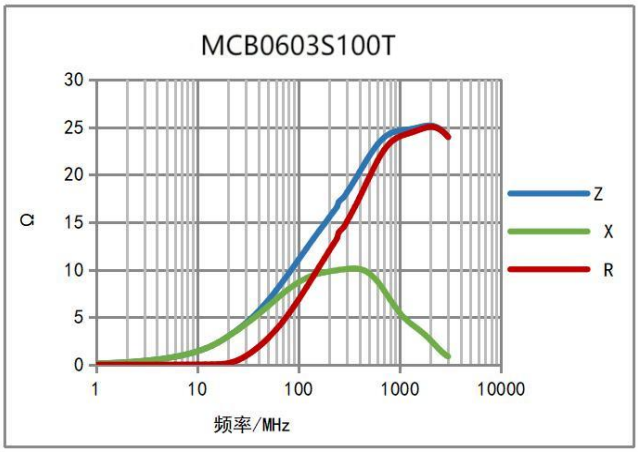
When Operating temperatures exceed +85℃, derating of current is necessary for chip ferrite beads for which rated current is 1A and over. Please apply the derating curve shown in chart according to the operating temperature.

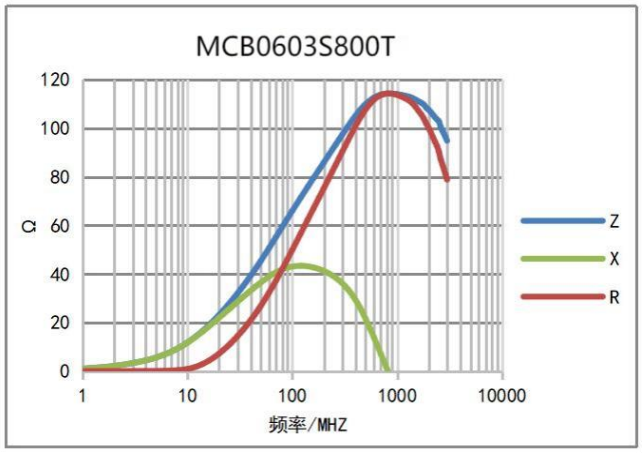


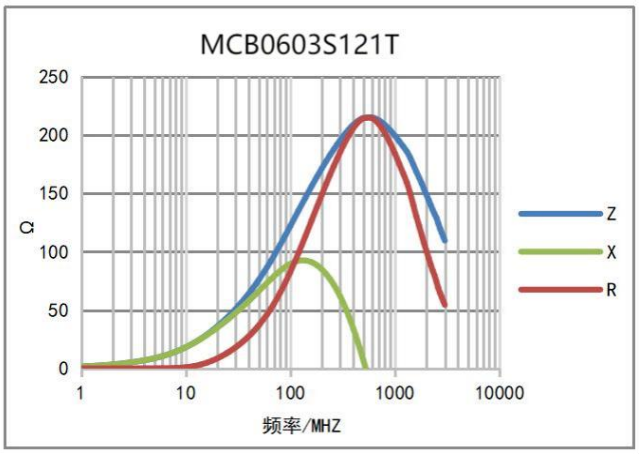
CHARACTERISTICS CURVES

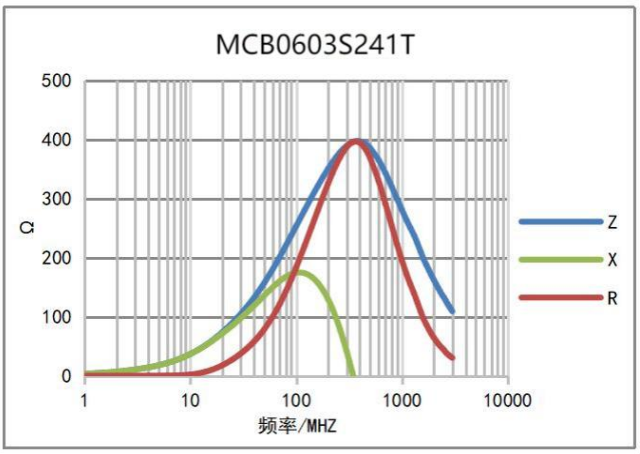
Impedance VS. Frenquency

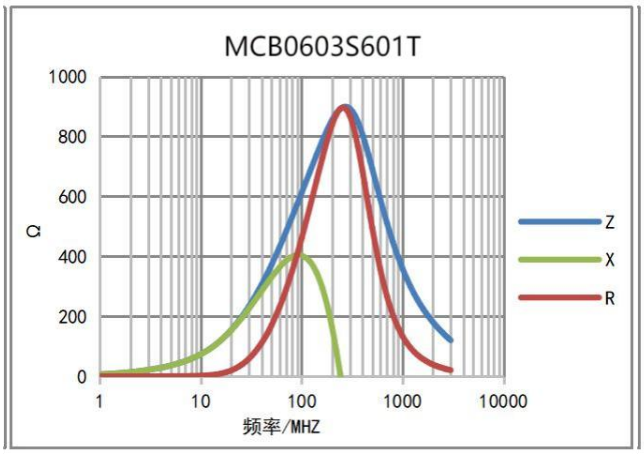
MCB0603 Series

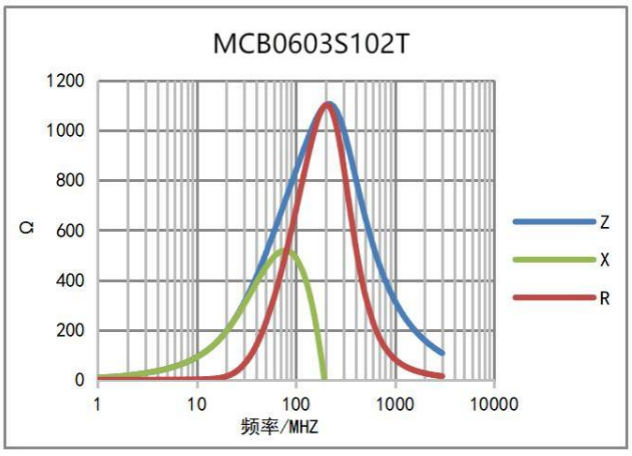




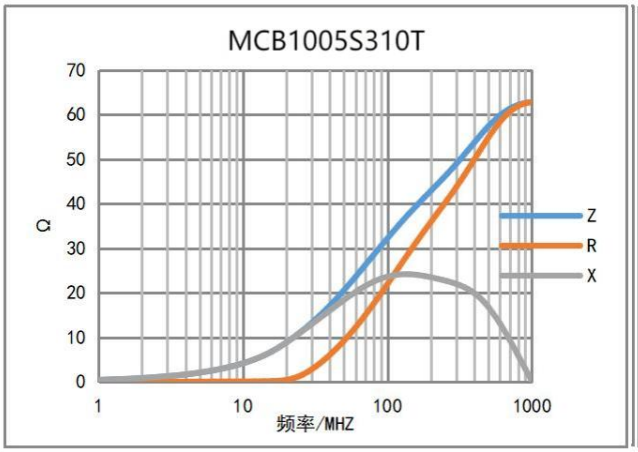


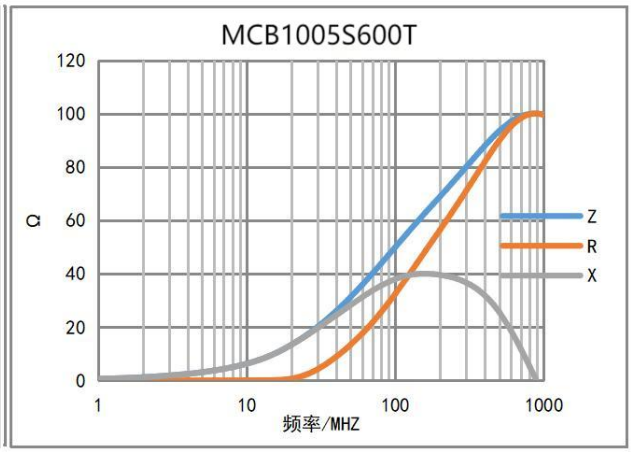


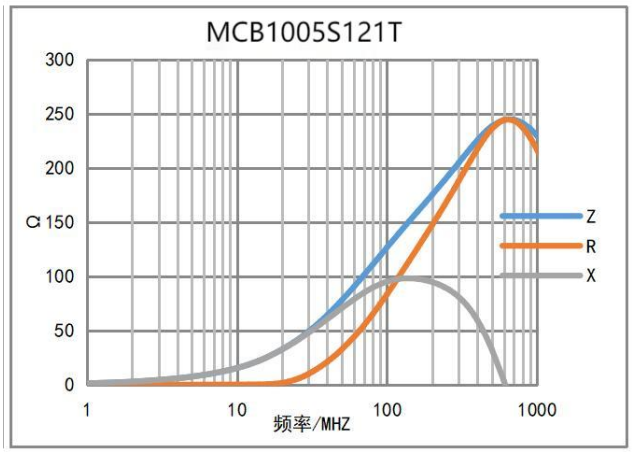


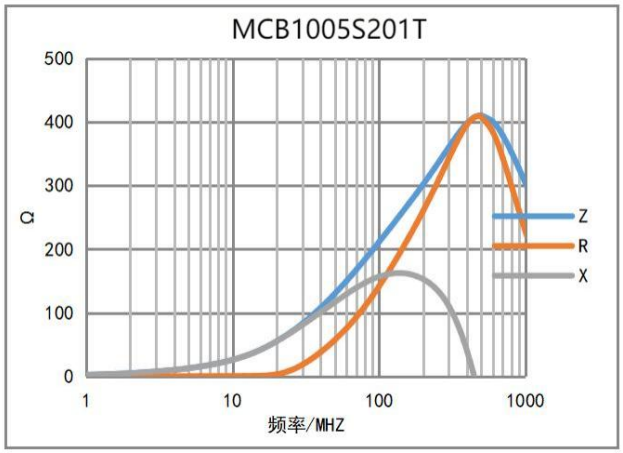


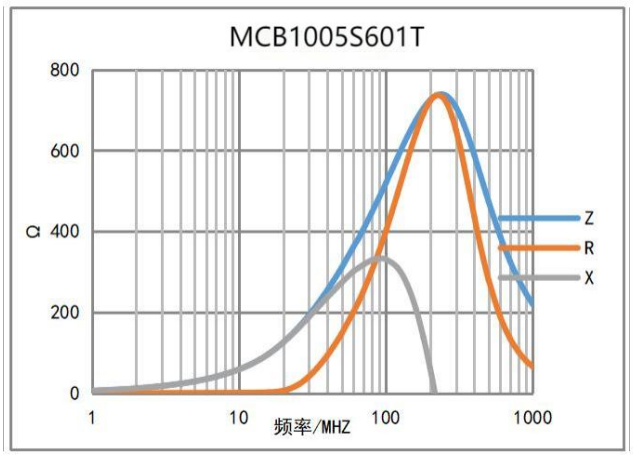
MCB1005 Series

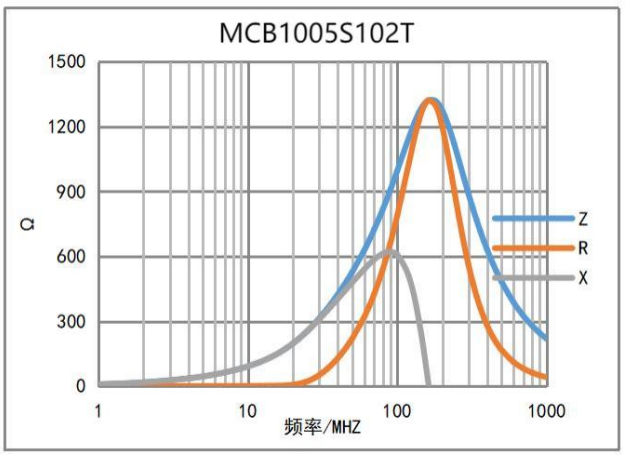




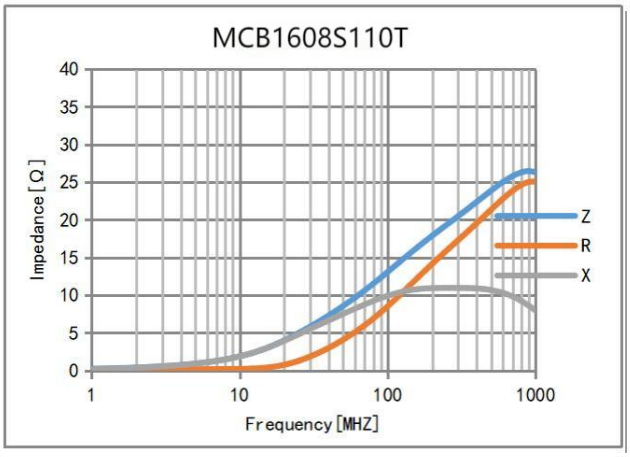


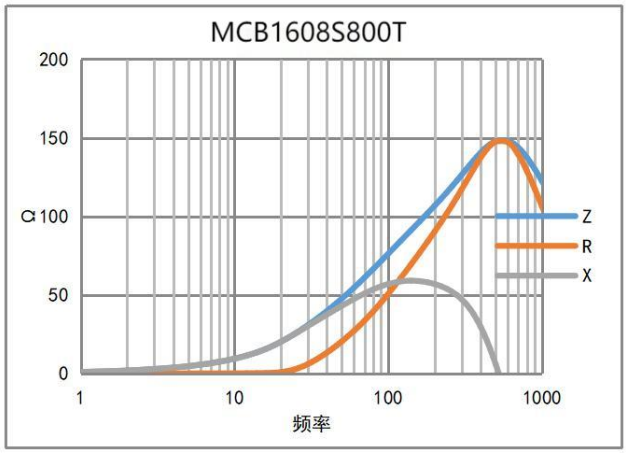


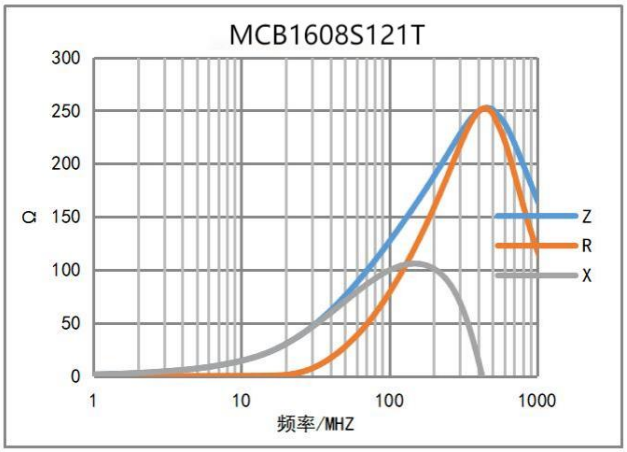


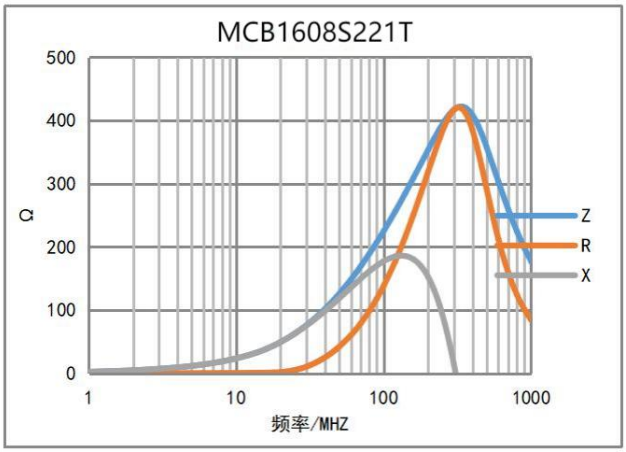


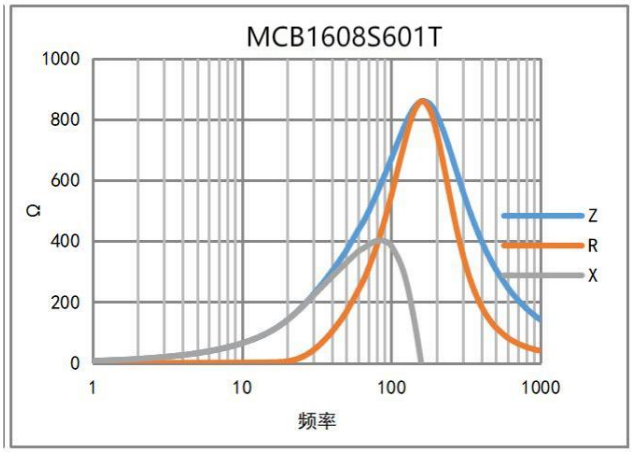
MCB1608 Series

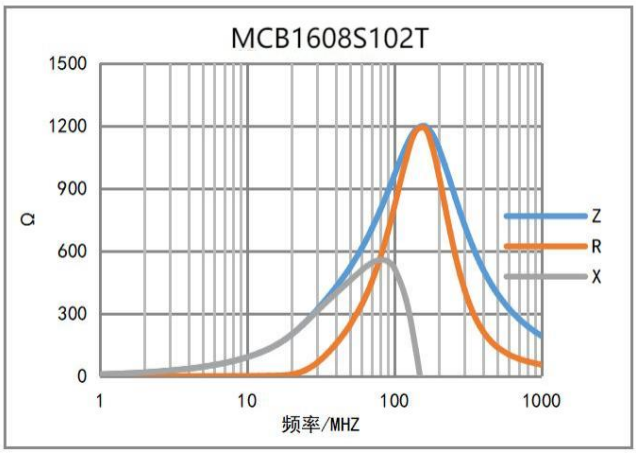




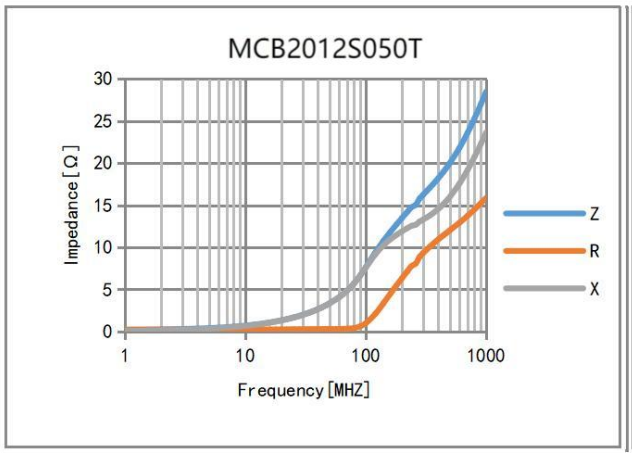


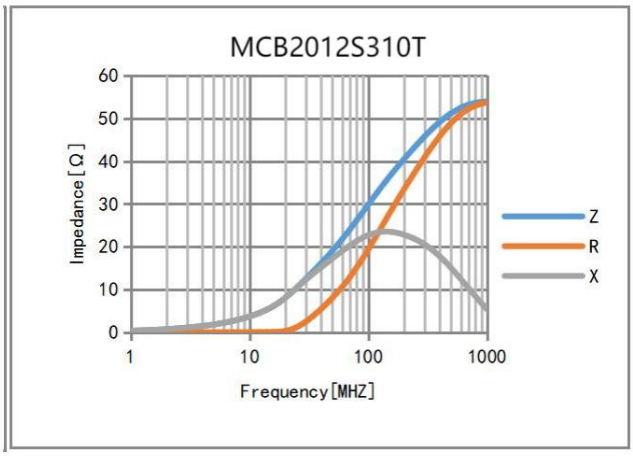


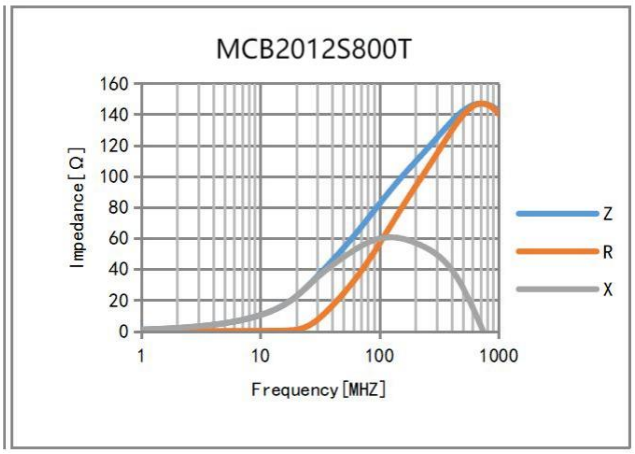


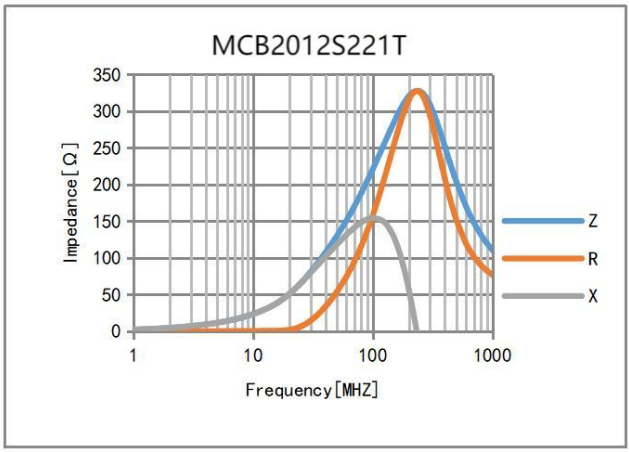


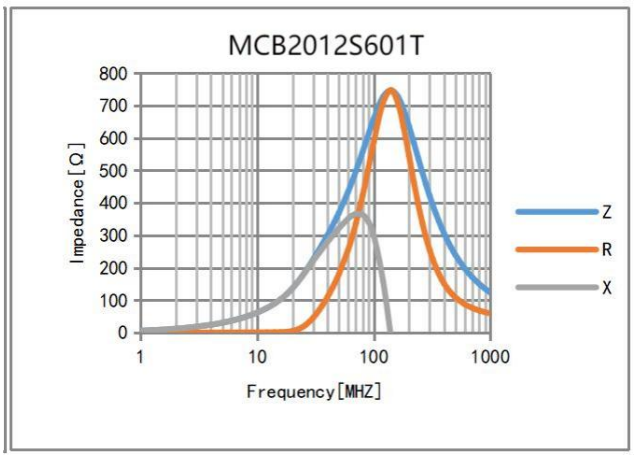
MCB2012 Series

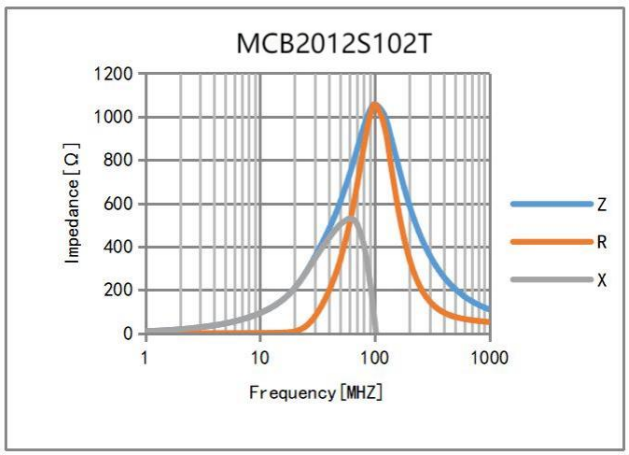




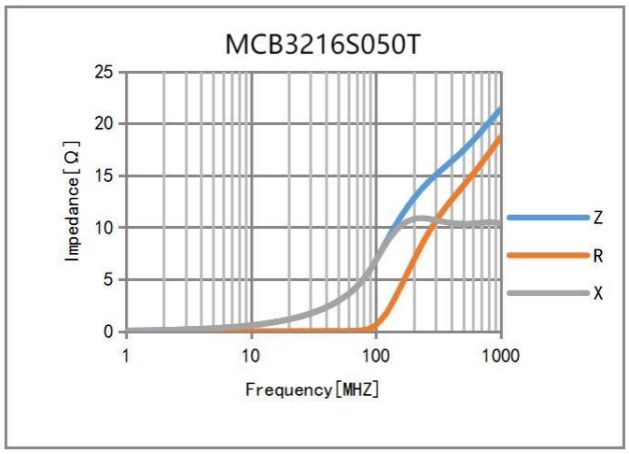


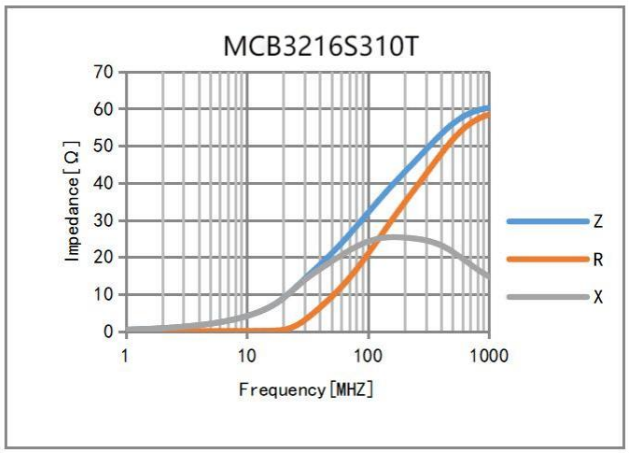


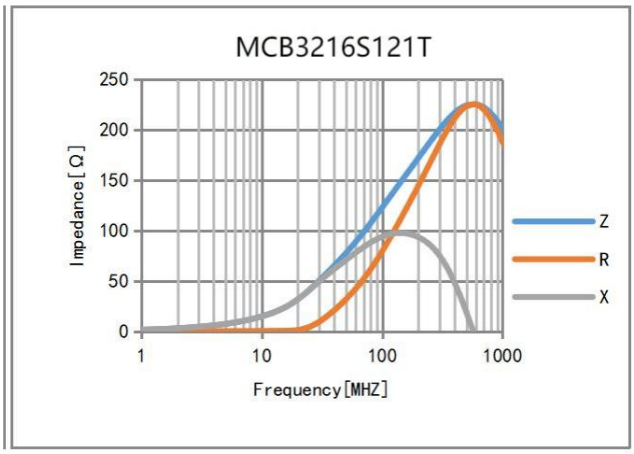


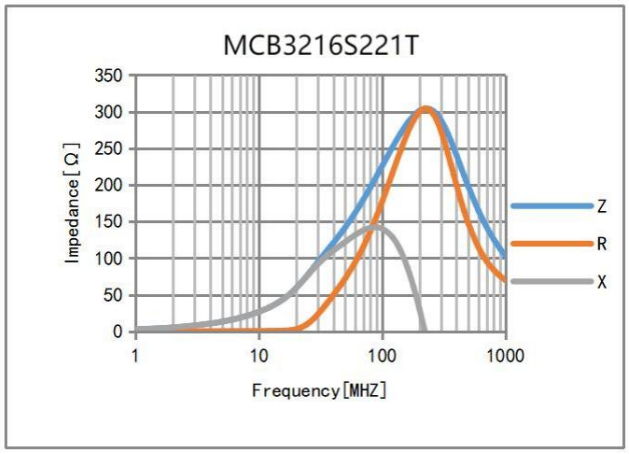


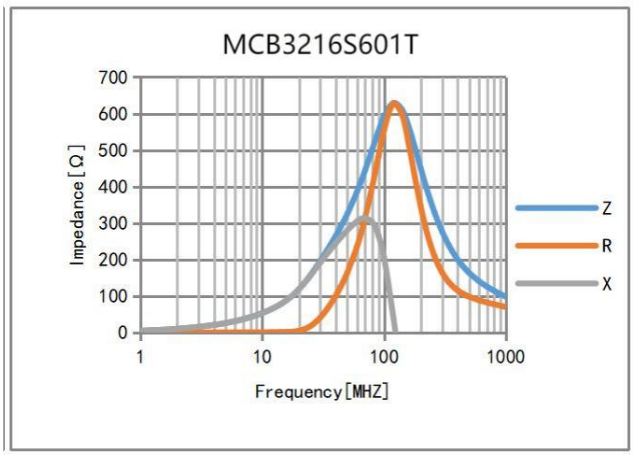
MCB3216 Series

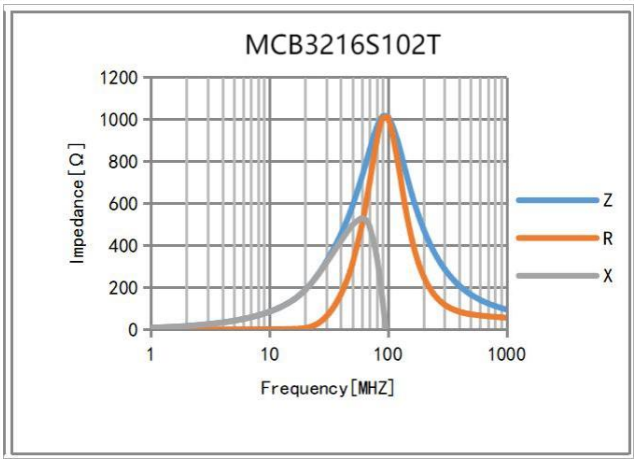












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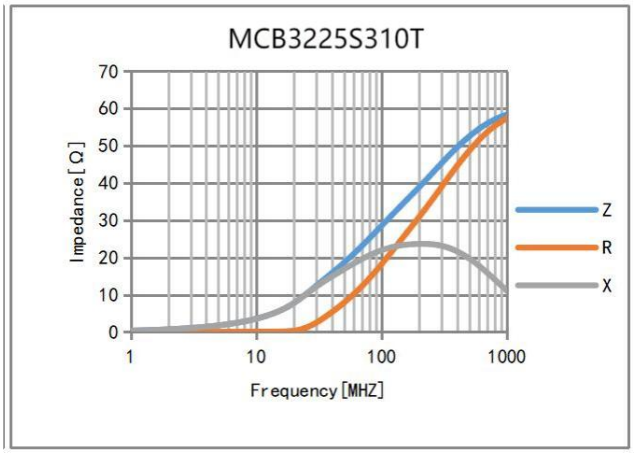

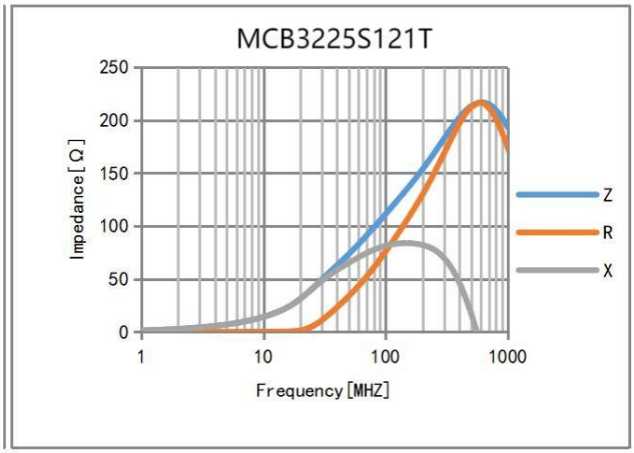

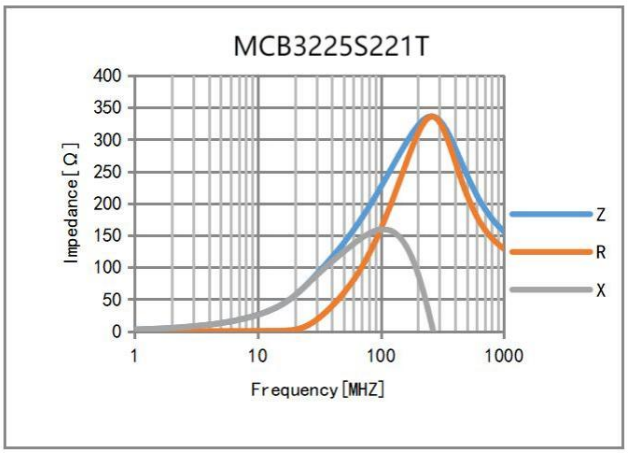

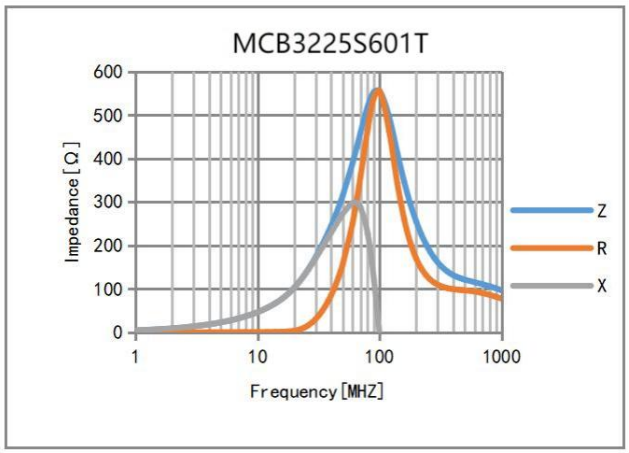

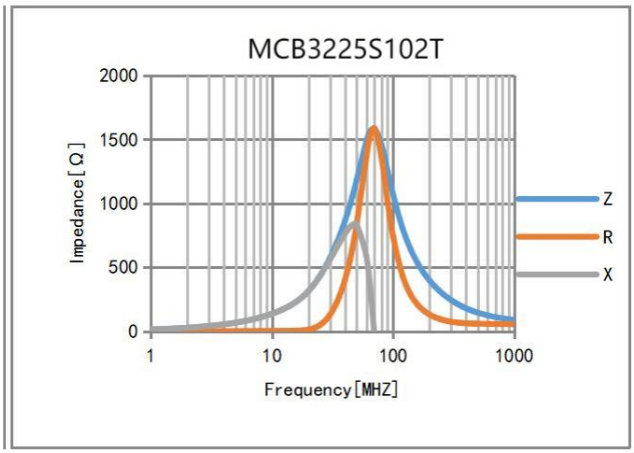

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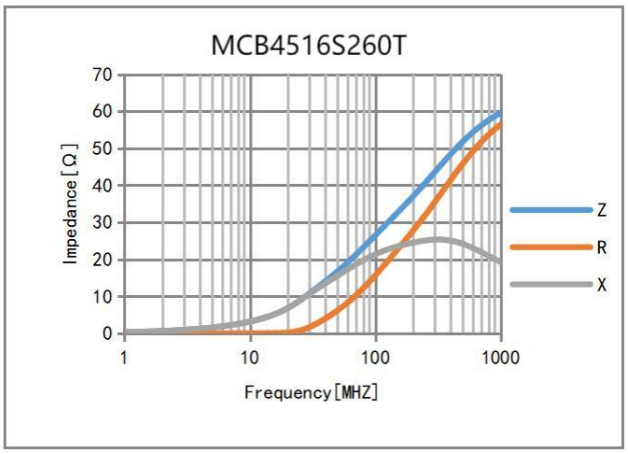

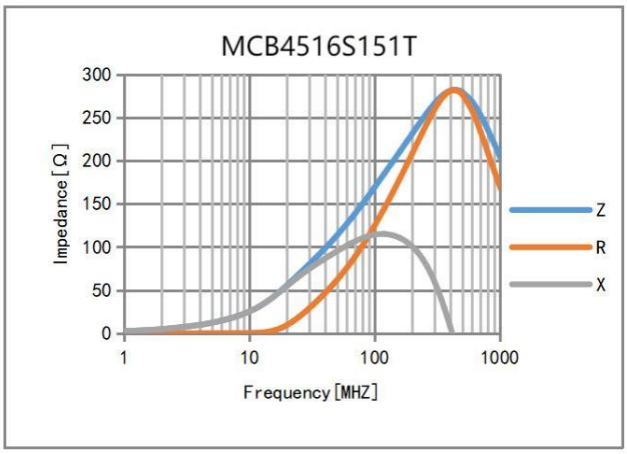

MCB4532 Series