MULTILAYER FERRITE CHIP BEAD FOR HIGH SPEED

片式铁氧体尖峰磁珠

PFSB SERIES

深圳高路瑞电子有限公司

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Multilayer Ferrite Chip Bead for High Speed-PFSB Series

片式铁氧体尖峰磁珠-PFSB 系列

INTRODUCTION AND CHARACTERISTICS 产品介绍及特性

INTRODUCTION	产品介绍
◆A ferrite bead is a passive electric component that suppresses high frequency noise in electronic circuits. It is a specific type of electronic choke. Ferrite beads employ the dissipation of high frequency currents in a ferrite ceramic to build high frequency noise suppression devices. Multilayer Ferrite Chip Bead for High Speed is sharp impedance characteristics at desirable frequency and does not affect the signal frequency.	◆磁珠是一种被动元件，用来抑制电路中的高频噪声。磁珠是一种特别的扼流圈，其成份多半为铁氧体，利用其高频电流产生的热耗散来抑制高频噪声。片式铁氧体尖峰磁珠在某频率区域内，其阻抗值急剧上升，从而在特定的频率区域内获得较高的衰减效果而对信号不产生影响。

CHARACTERISTICS	特性
◆Monolith structure for high reliability	◆积层独石结构、高可靠性
◆No cross coupling due to magnetic shield	◆良好的磁屏蔽，无交叉耦合
◆Perfect shape for mounting with no directionality	◆无引线结构，适合表面安装
◆Excellent solderability and high heat resistance for reflow soldering or wave soldering	◆良好的焊接性，适合于回流焊或波峰焊

APPLICATIONS	应用产品
◆Mother board,tablet PC,notebook,desktop computers and peripheral equipment	◆主机板，平板电脑，笔记型，桌上型电脑及其周边设备
◆DSC,DVC,LCD Television,Set Top Box	◆数位相机，数位摄影机，液晶电视机，数位机上盒
◆Mobile phone,smart phone,PHD	◆行动电话，智能手机，个人导航设备
◆Redialed noise suppression on digital product clock lines signal lines and suppression noise on circuit	◆用于数据传输线、信号线。电源及回路部分的抗干扰

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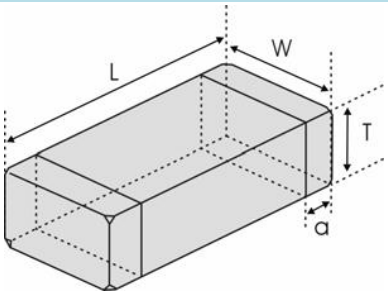
PRODUCT IDENTIFICATION 产品型号

PFSB 2012 S 601 T
① ② ③ ④ ⑤

①Product Series Code 产品系列码	PFSB	Multilayer Ferrite Chip Bead for High Speed 片式铁氧体尖峰磁珠
②Size Code 尺寸码	2012	长×宽（L×W）（mm） 2.0×1.2
③Material Code 材质代号	--	P M S
④Nominal Impedance 阻抗	600	60Ω
	601	600Ω
⑤Packing 包装形式	T	Tape and Reel 编带

SHAPE AND DIMENSIONS 外观尺寸



SIZE 尺寸	L 长 mm	W 宽 mm	T 厚 mm	a 银厚 mm
0603(0201)	0.6±0.05	0.3±0.05	0.3±0.05	0.1~0.2
1005(0402)	1.0±0.15	0.5±0.15	0.5±0.15	0.15~0.35
1608(0603)	1.6±0.15	0.8±0.15	0.8±0.15	0.1~0.5
2012(0805)	2.0±0.2	1.25±0.2	0.85±0.2	0.2~0.8
3216(1206)	3.2±0.2	1.6±0.2	0.85±0.2	0.2~0.8

STORAGE AND OPERATING CONDITIONS 储存及操作条件

Operating Temperature Range	-55℃~+125℃
Storage Temperature and Humidity Range	－10℃~＋40℃,70%RH max.

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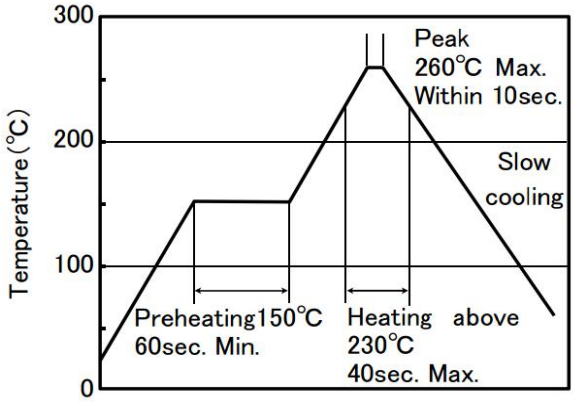
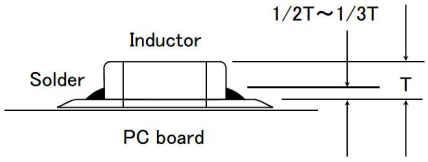
RECOMMENDED SOLDERING CONDITION 建议焊锡方式

REFLOW SOLDERING 回流焊



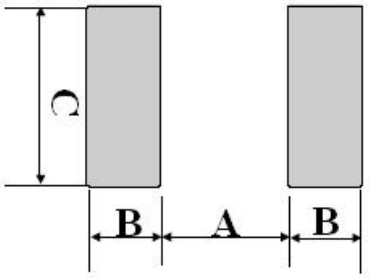
① Ceramic chip components should be preheated to within 100 to 130℃ of the soldering.
② Assured to be reflow soldering for 2 times.

Caution:
1)The ideal condition is to have solder mass（fillet）controlled to 1/2 to 1/3 of the thickness of the inductor.



2)Because excessive dwell times can detrimentally affect solderability, soldering duration should be kept as close to recommended times as possible.

RECOMMENDED LAND PATTERN 推荐的焊盘尺寸

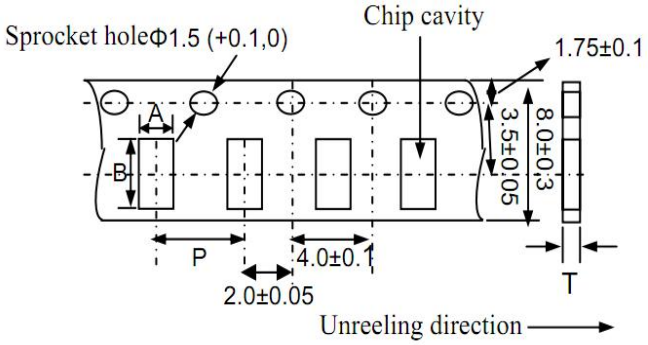


Dimension（mm）	A (mm)	B (mm)	C (mm)
0603	0.2~0.3	0.2~0.3	0.3~0.35
1005	0.45~0.55	0.40~0.50	0.45~0.55
1608	0.6~0.8	0.6~0.8	0.6~0.8
2012	0.8~1.2	0.8~1.2	0.9~1.6
3216	1.8~2.5	1.0~1.5	1.2~2.0

PACKING STANDARD 包装标准

Taping Dimensions

◆Paper tape (8mm wide)



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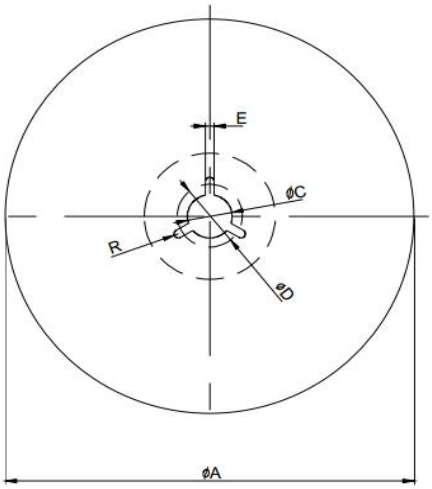
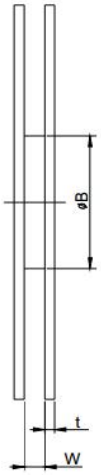
Type	Chip Thickness	A	B	P	T max.	Quantity (pcs/reel)
	(mm)					ø178mm Reel
PFSB0603	0.30	0.40	0.70	2	0.55	15000
PFSB1005	0.50	0.65	1.15	2	0.80	10000
PFSB1608	0.80	1.00	1.80	4	1.10	4000
PFSB2012	0.85	1.50	2.30	4	1.10	4000
PFSB3216	0.85	1.90	3.50	4	1.10	4000

◆Reel Dimensions





Symbol	ø178mm Reel	Ø330mm Reel
A	Ø178±2	Ø330±2
B	Ø60±2	Ø100±2
C	Ø13±0.8	Ø13±0.8
D	Ø21±0.8	Ø21±0.8
E	2	2
W8	10±1.5	10±1.5
W12	14.5±1.5	14.5±1.5
W16	--	17.4(Typ.)
W24	--	24.4(Typ.)
T	2±0.5	2±0.5
R	1	1

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SPECIFICATIONS 规格特性

PFSB 0603(0201) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Thickness 厚度
Units 单位	Ω ±25%	Ω (Max.)	mA (Max.)	mm
PFSB0603S100T	10	0.25	200	0.3±0.05
PFSB0603S220T	22	0.45	200	0.3±0.05
PFSB0603S330T	33	0.55	150	0.3±0.05
PFSB0603S470T	47	0.70	150	0.3±0.05
PFSB0603S560T	56	1.00	100	0.3±0.05
PFSB0603S800T	80	1.30	100	0.3±0.05
PFSB0603S121T	120	1.50	100	0.3±0.05

PFSB 1005(0402) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Thickness 厚度
Units 单位	Ω ±25%	Ω (Max.)	mA (Max.)	mm
PFSB1005S050T	0~15	0.15	600	0.5±0.15
PFSB1005S300T	30	0.15	600	0.5±0.15
PFSB1005S750T	75	0.30	600	0.5±0.15
PFSB1005S121T	120	0.40	400	0.5±0.15
PFSB1005S221T	220	0.70	200	0.5±0.15
PFSB1005M750T	75	0.30	600	0.5±0.15
PFSB1005M121T	120	0.40	400	0.5±0.15
PFSB1005M221T	220	0.70	200	0.5±0.15
PFSB1005M301T	300	0.80	200	0.5±0.15
PFSB1005M421T	420	1.00	150	0.5±0.15
PFSB1005M601T	600	1.10	100	0.5±0.15
PFSB1005M102T	1000	1.20	100	0.5±0.15
PFSB1005M152T	1500	1.40	100	0.5±0.15
PFSB1005M182T	1800	1.80	50	0.5±0.15

PFSB 1608(0603) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Thickness 厚度
Units 单位	Ω ±25%	Ω (Max.)	mA (Max.)	mm
PFSB1608S050T	0~15	0.10	800	0.8±0.15
PFSB1608S220T	22	0.20	800	0.8±0.15
PFSB1608S600T	60	0.30	600	0.8±0.15
PFSB1608S121T	120	0.45	600	0.8±0.15
PFSB1608S221T	220	0.55	500	0.8±0.15
PFSB1608S331T	330	0.70	500	0.8±0.15
PFSB1608S471T	470	0.80	400	0.8±0.15

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PFSB1608S601T	600	1.10	200	0.8±0.15
PFSB1608S102T	1000	1.20	150	0.8±0.15
PFSB1608M121T	120	0.40	600	0.8±0.15
PFSB1608M221T	220	0.45	500	0.8±0.15
PFSB1608M331T	330	0.50	500	0.8±0.15
PFSB1608M421T	420	0.55	400	0.8±0.15
PFSB1608M471T	470	0.55	400	0.8±0.15
PFSB1608M601T	600	0.60	200	0.8±0.15
PFSB1608M102T	1000	0.80	200	0.8±0.15
PFSB1608M152T	1500	0.80	200	0.8±0.15
PFSB1608M202T	2000	1.00	200	0.8±0.15
PFSB1608M222T	2200	1.00	200	0.8±0.15
PFSB1608M252T	2500	1.20	200	0.8±0.15
PFSB1608M272T	2700	1.40	200	0.8±0.15

SPECIFICATIONS 规格特性

PFSB 2012(0805) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Thickness 厚度
Units 单位	Ω ±25%	Ω (Max.)	mA (Max.)	mm
PFSB2012S050T	0~15	0.07	1000	0.85±0.2
PFSB2012S300T	30	0.10	1000	0.85±0.2
PFSB2012S600T	60	0.20	800	0.85±0.2
PFSB2012S121T	120	0.25	600	0.85±0.2
PFSB2012S221T	220	0.30	600	0.85±0.2
PFSB2012S421T	420	0.40	600	0.85±0.2
PFSB2012S601T	600	0.45	600	0.85±0.2
PFSB2012S102T	1000	0.50	500	0.85±0.2
PFSB2012M121T	120	0.20	600	0.85±0.2
PFSB2012M221T	220	0.25	600	0.85±0.2
PFSB2012M301T	300	0.30	600	0.85±0.2
PFSB2012M601T	600	0.35	600	0.85±0.2
PFSB2012M102T	1000	0.40	500	0.85±0.2
PFSB2012M152T	1500	0.45	200	0.85±0.2
PFSB2012M222T	2200	0.60	200	0.85±0.2
PFSB2012M252T	2500	0.70	200	0.85±0.2
PFSB2012M272T	2700	0.80	200	0.85±0.2

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SPECIFICATIONS 规格特性

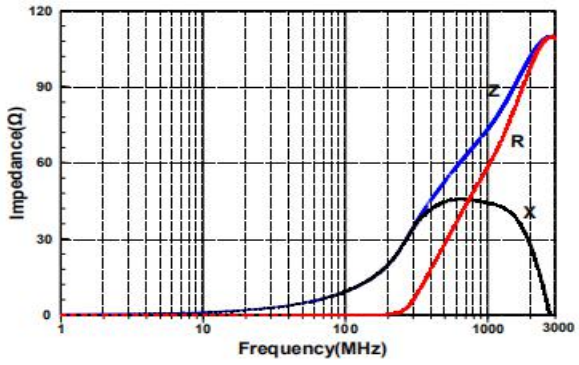
PFSB 3216(1206) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Thickness 厚度
Units 单位	Ω ±25%	Ω (Max.)	mA (Max.)	mm
PFSB3216S190T	12~25	0.10	500	0.85±0.2
PFSB3216S260T	26	0.10	500	0.85±0.2
PFSB3216S310T	31	0.10	500	0.85±0.2
PFSB3216S700T	70	0.20	400	0.85±0.2
PFSB3216S800T	80	0.20	400	0.85±0.2
PFSB3216S101T	100	0.20	400	0.85±0.2
PFSB3216S121T	120	0.20	400	0.85±0.2
PFSB3216S151T	150	0.20	400	0.85±0.2
PFSB3216S221T	220	0.20	400	0.85±0.2
PFSB3216S301T	300	0.25	400	0.85±0.2
PFSB3216S501T	500	0.30	300	0.85±0.2
PFSB3216S601T	600	0.30	300	0.85±0.2
PFSB3216S801T	800	0.40	300	0.85±0.2
PFSB3216S102T	1000	0.40	300	0.85±0.2
PFSB3216S122T	1200	0.60	100	0.85±0.2

TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

Z, R, X vs. FREQUENCY CHARACTERISTICS

PFSB0603S100



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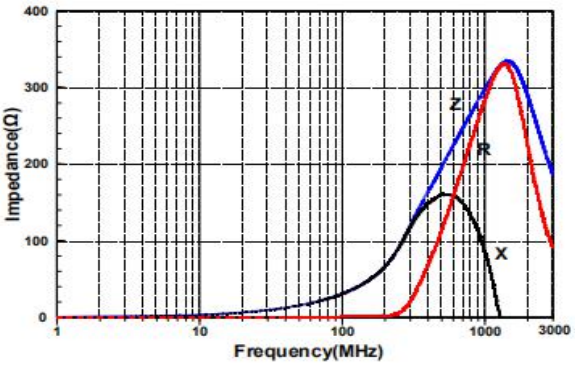

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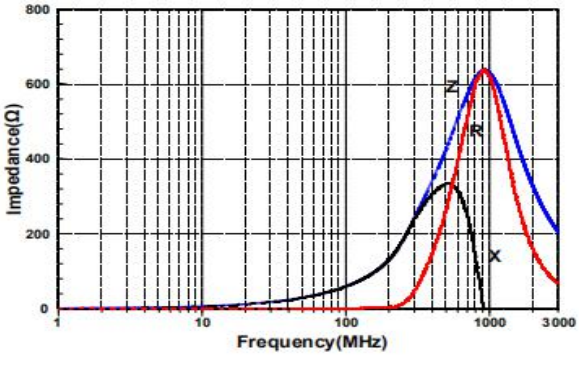

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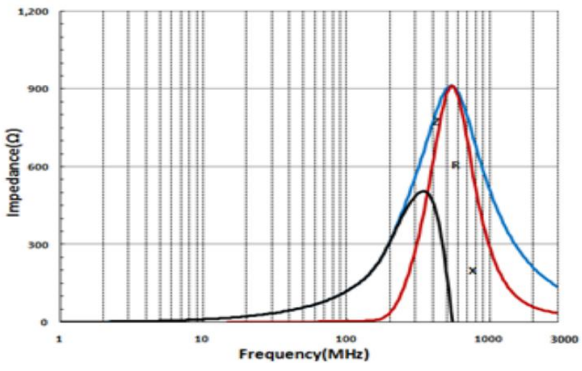

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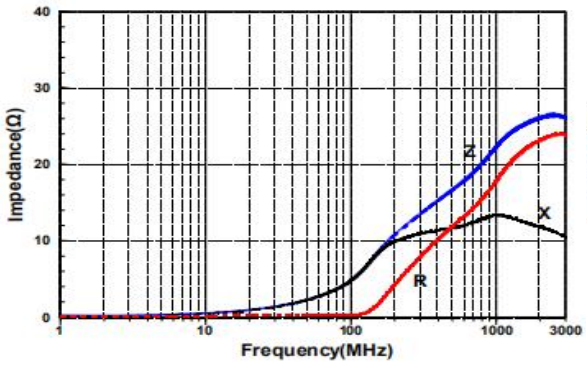
TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

Z, R, X vs. FREQUENCY CHARACTERISTICS

PFSB1005S050



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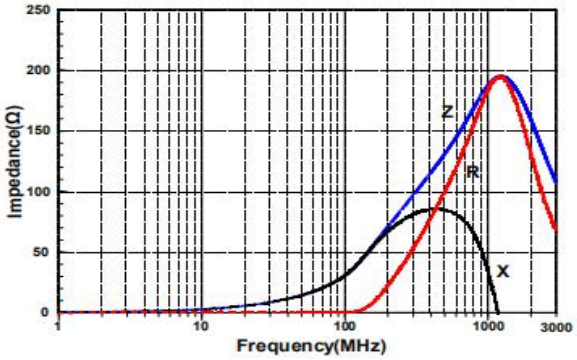

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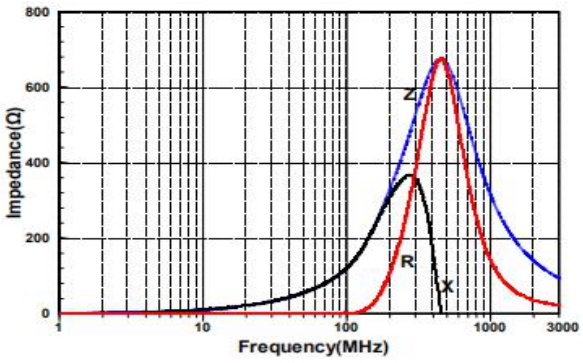

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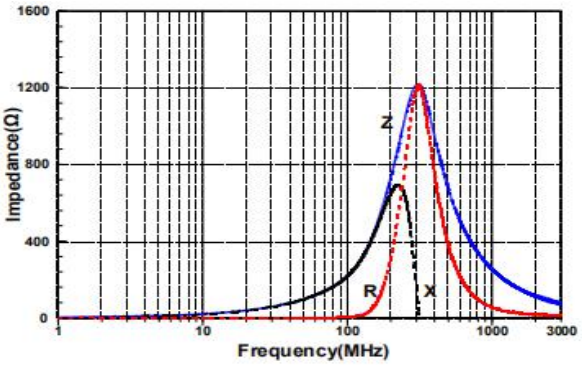

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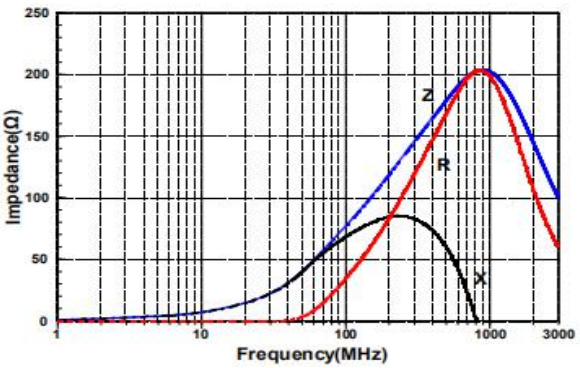

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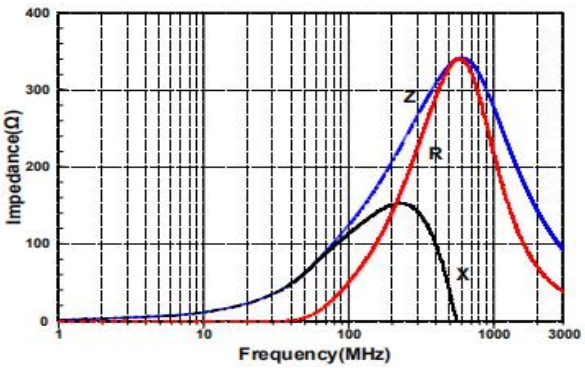

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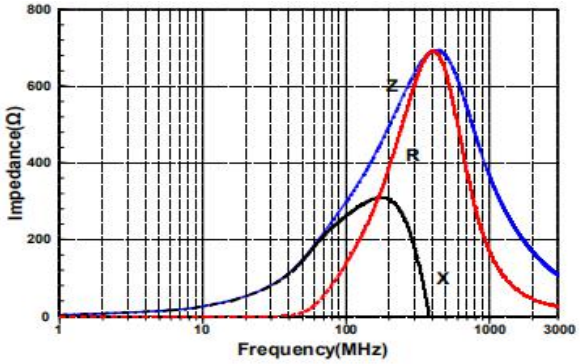

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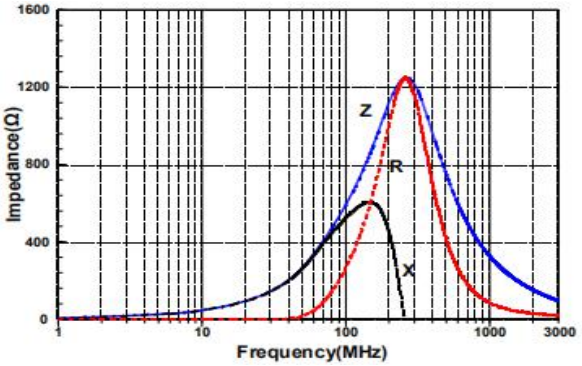

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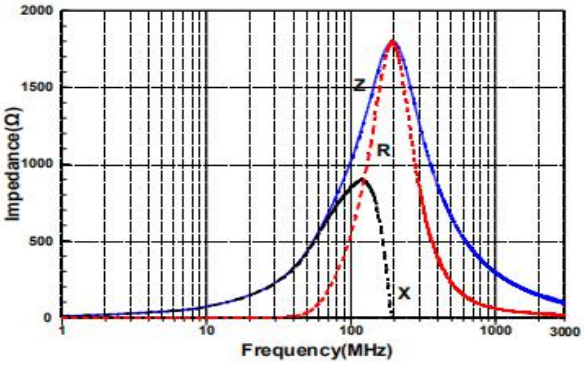
TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

Z, R, X vs. FREQUENCY CHARACTERISTICS

PFSB1005M102



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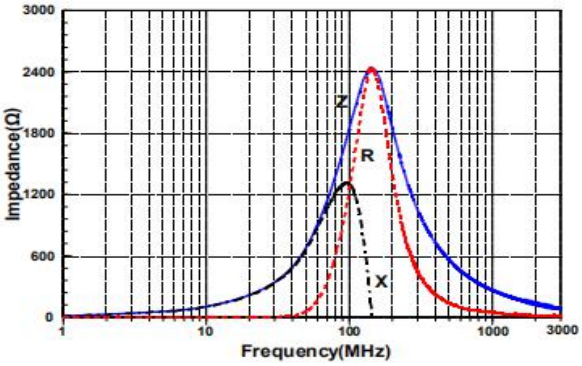

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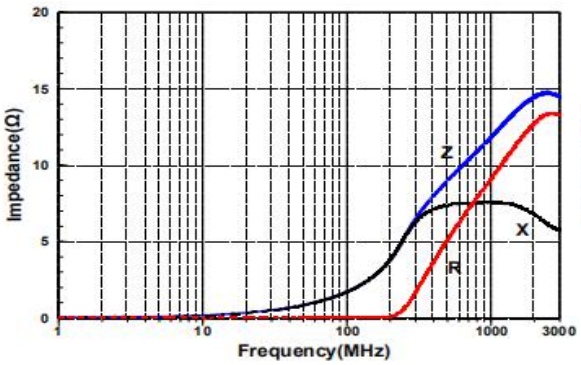

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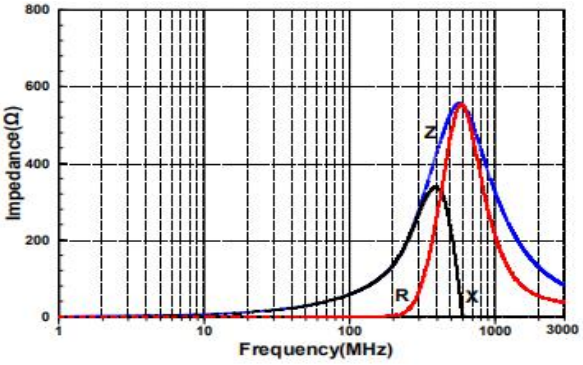

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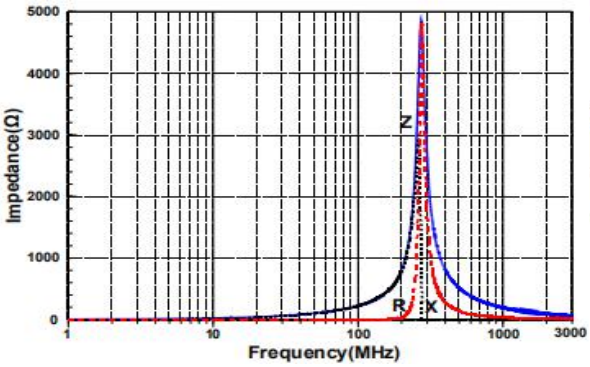
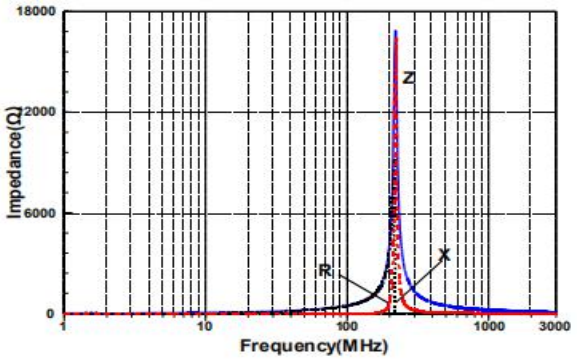


PFSB1608S471



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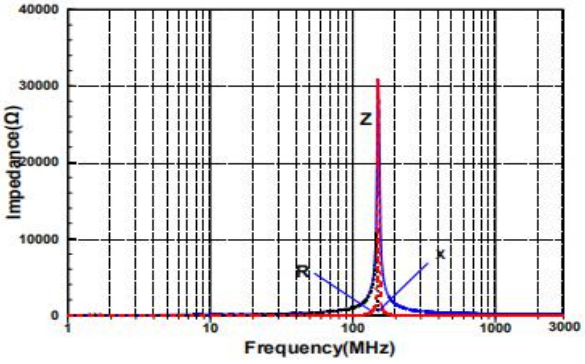
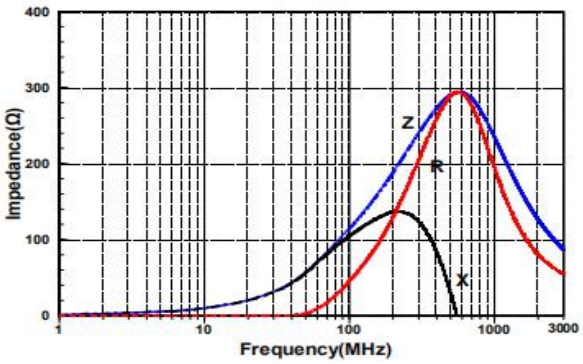


PFSB1608M121



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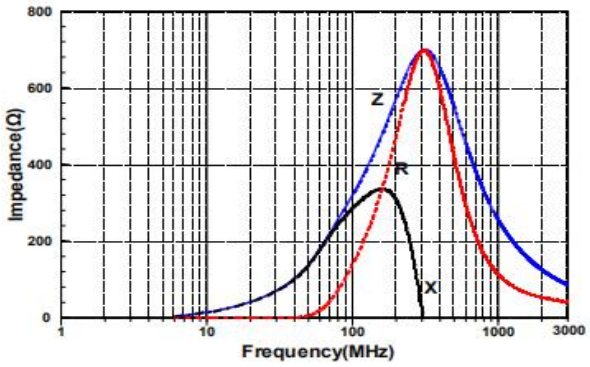
TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

Z, R, X vs. FREQUENCY CHARACTERISTICS

PFSB1608M331



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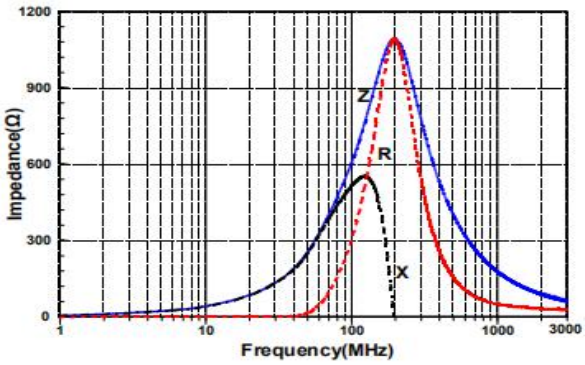

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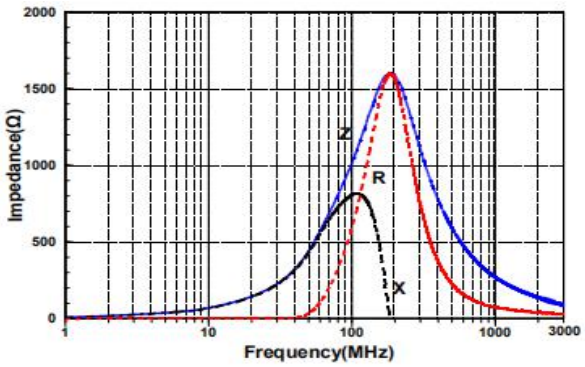

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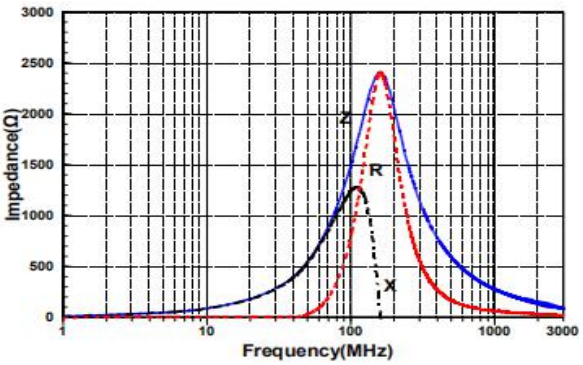

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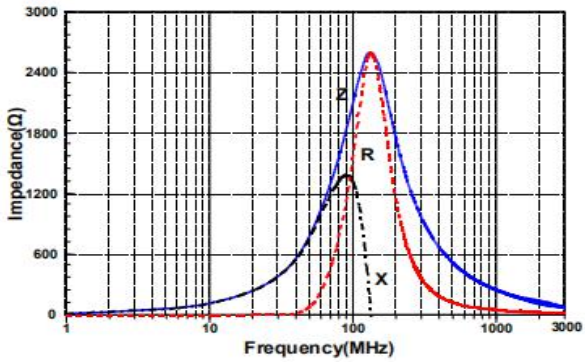

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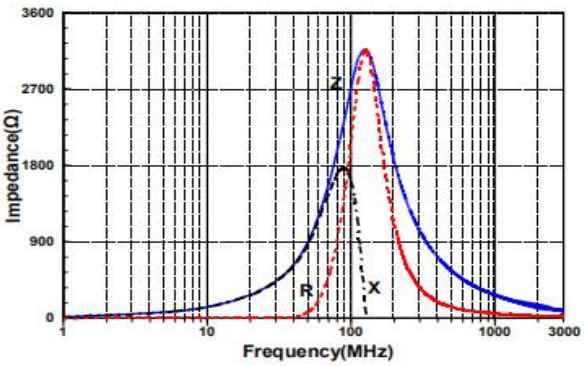

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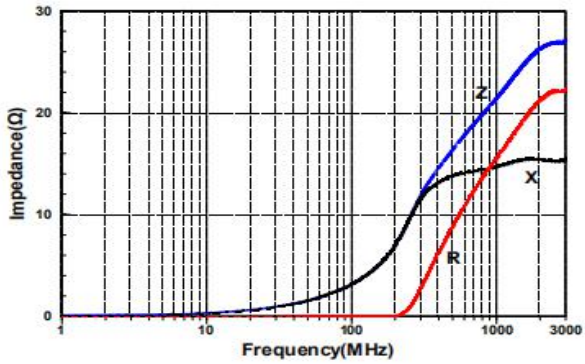

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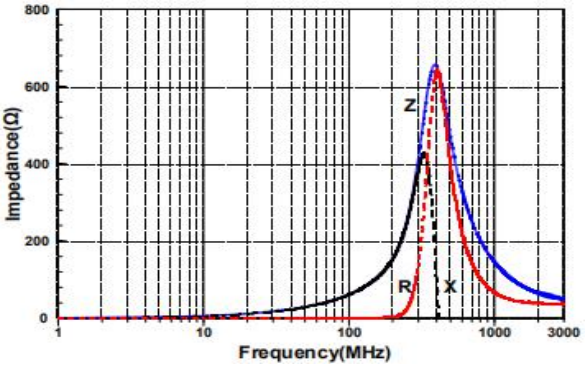

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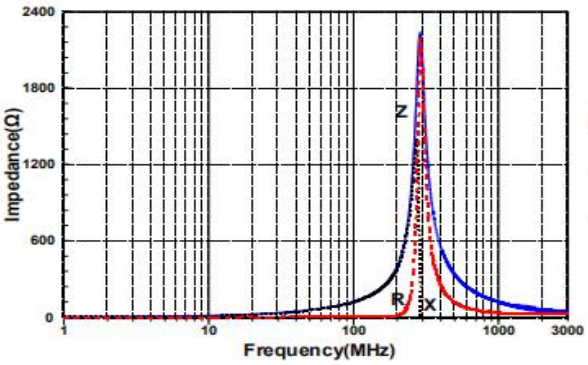
TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

Z, R, X vs. FREQUENCY CHARACTERISTICS

PFSB2012S121



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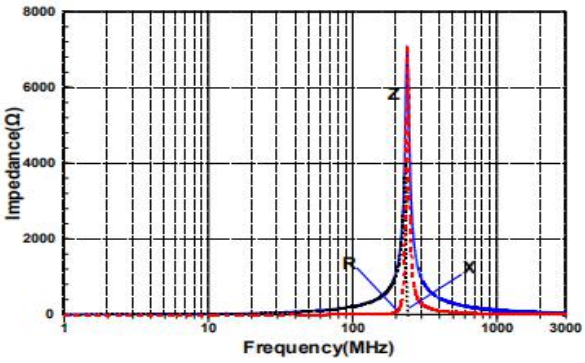

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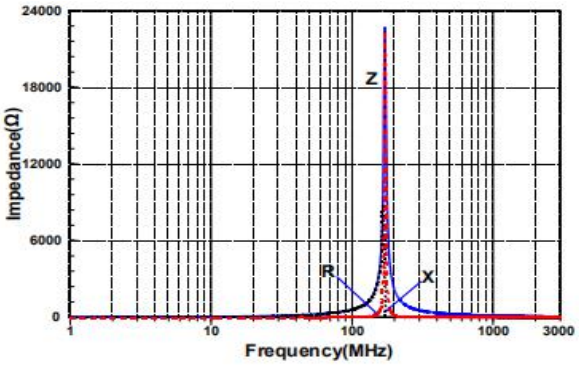

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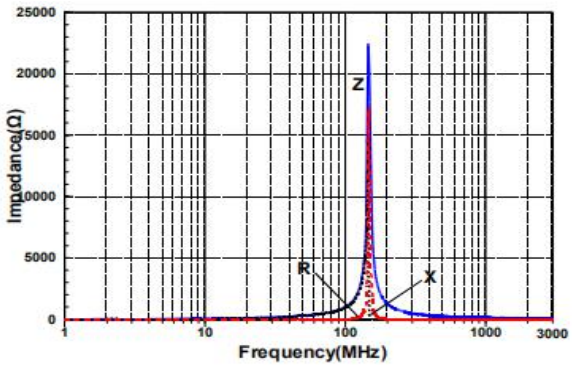

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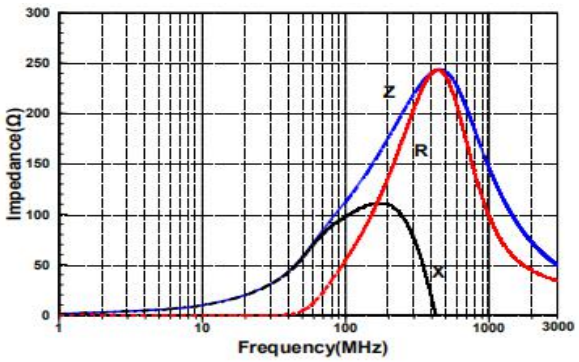

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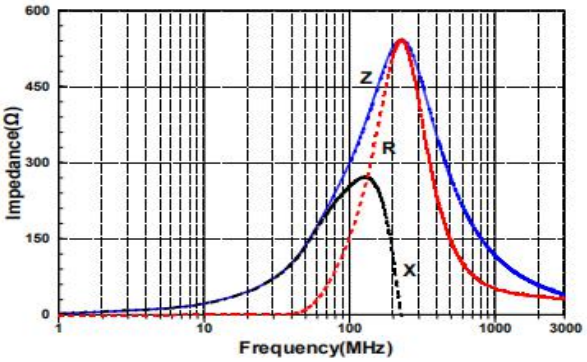

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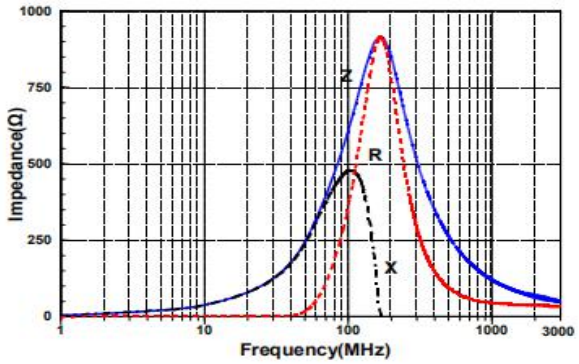

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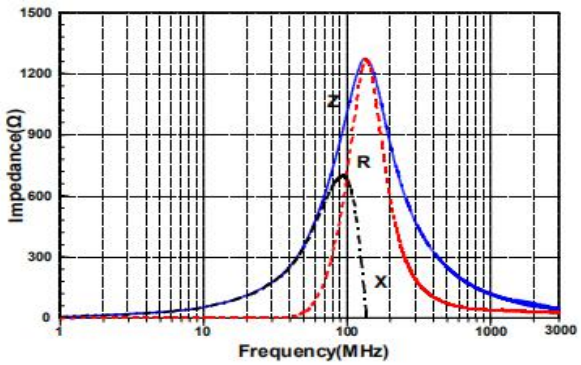

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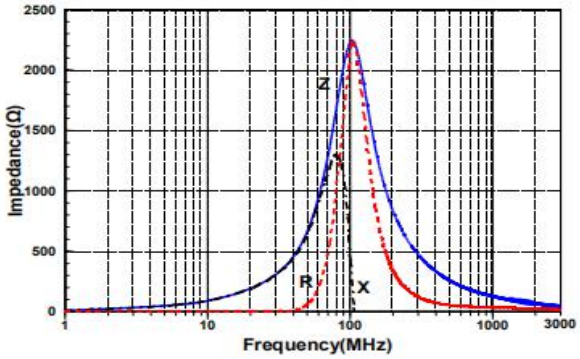
TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

Z, R, X vs. FREQUENCY CHARACTERISTICS

PFSB2012M222



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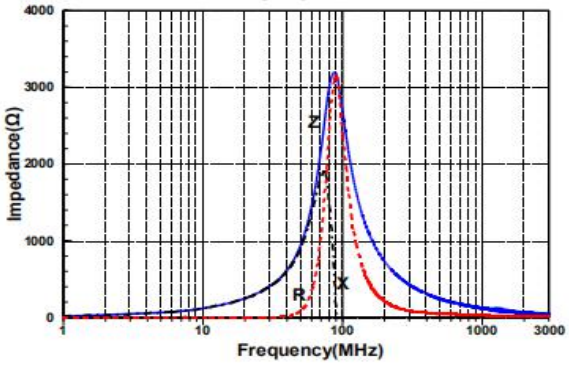
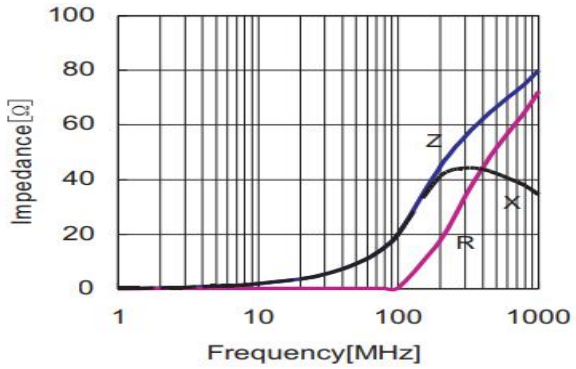


PFSB3216M260



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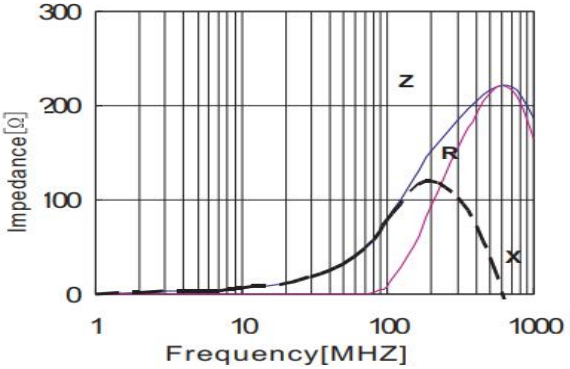

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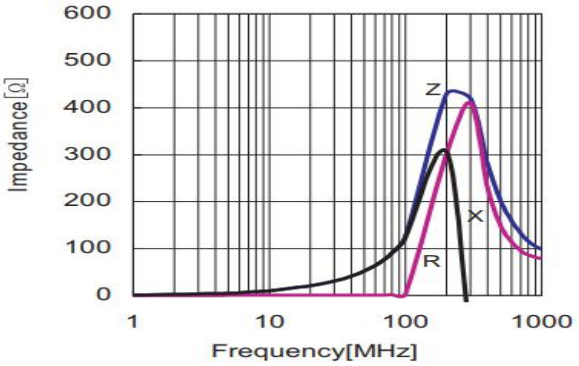

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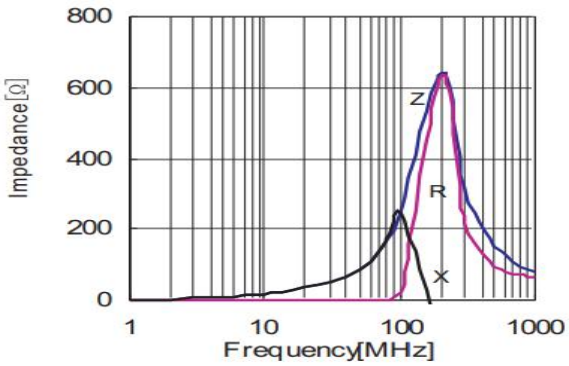

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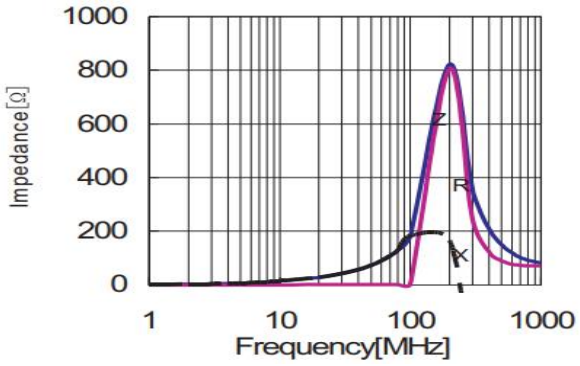

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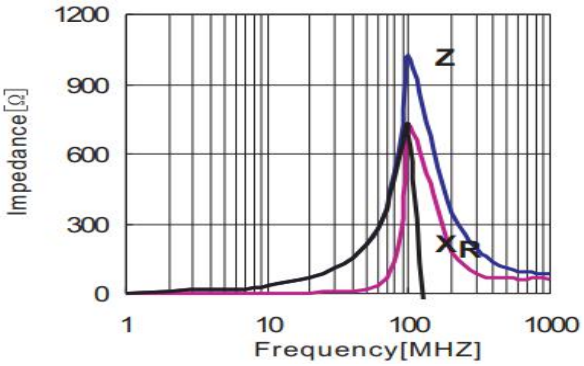

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