

Beads

Use of low speed
signal line

系列	形状	尺寸
SBLxxxxxxG		1005[0402]-4532[1812]
Impedance Range(Ω)	0~2700	Rated Current(mA) 30~1000

Use of high speed
signal line

系列	形状	尺寸
SBLxxxxxxY		1005[0402]-3216[1206]
Impedance Range(Ω)	0~600	Rated Current(mA) 100~600

Use of high frequency
signal line

系列	形状	尺寸
SBLxxxxxxH		1005[0402]-3216[1206]
Impedance Range(Ω)	0~1200	Rated Current(mA) 100~1000

Use of high speed
signal line

系列	形状	尺寸
SBLxxxxxxW		1005[0402]-4532[1812]
Impedance Range(Ω)	0~2500	Rated Current(mA) 100~6000

Use of high speed
signal line

系列	形状	尺寸
SBLxxxxxxM		1005[0402]-4532[1812]
Impedance Range(Ω)	0~1000	Rated Current(mA) 300~6000

Multilayer Chip Ferrite General Bead SBLxxxxxxG Series

Features 特点

- Multilayer monolithic construction yields high reliability
独石结构、高可靠性
- Excellent solderability and heat resistance for either flow or reflow soldering
良好的可焊性和耐焊性
- Substantial EMI suppression over a wide frequency range
在宽频段有显著的抑制噪声效果

Applications 应用

- Noise suppression in digital equipment such as computer and its peripheral devices, DVD, camera, OA equipments, etc
电脑及周边设备、DVD、照相机、办公设备等噪声控制

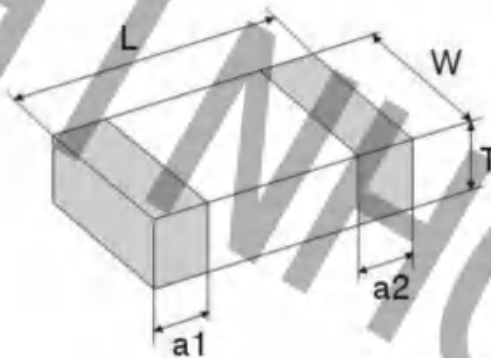
Product Identification 产品标识

SBL 321609 G 102

① ② ③ ④

- ① Series name 系列名称
② Dimension 产品尺寸 L×W×T: 【321609: 3.2mm×1.6mm×0.9mm】
③ Material code 材料代码
④ Impedance 阻抗: 【100=10Ω 101=100Ω 102=1000Ω】

Shapes And Dimensions 外形及尺寸示意图



Type	Dimensions (mm) [inch]			
	L	W	T	a1, a2
100505 [0402]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
160808 [0603]	1.60±0.20 [0.063±0.008]	0.80±0.20 [0.031±0.008]	0.80±0.20 [0.031±0.008]	0.30±0.20 [0.012±0.008]
201209 [0805]	2.00±0.20 [0.079±0.008]	1.20±0.20 [0.049±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]
321609 [1206]	3.20±0.20 [0.126±0.008]	1.60±0.20 [0.063±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]
322513 [1210]	3.20±0.20 [0.126±0.008]	2.50±0.20 [0.098±0.008]	1.30±0.20 [0.051±0.008]	0.50±0.30 [0.02±0.012]
451616 [1806]	4.50±0.20 [0.180±0.008]	1.60±0.20 [0.063±0.008]	1.60±0.20 [0.063±0.008]	0.50±0.30 [0.02±0.012]
453215 [1812]	4.50±0.20 [0.180±0.008]	3.20±0.20 [0.126±0.008]	1.50±0.20 [0.06±0.008]	0.50±0.30 [0.02±0.012]

Electrical Characteristics 电气性能

SBL100505G Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL100505G-000	0~15	100	0.10	300
SBL100505G-050	0~15	100	0.10	300
SBL100505G-070	0~11	100	0.10	300
SBL100505G-090	5~13	100	0.10	300
SBL100505G-110	7~15	100	0.10	300
SBL100505G-150	9~21	100	0.10	300
SBL100505G-190	12~25	100	0.10	300
SBL100505G-260	26 $\pm$ 25%	100	0.15	300
SBL100505G-310	31 $\pm$ 25%	100	0.20	300
SBL100505G-360	36 $\pm$ 25%	100	0.20	300
SBL100505G-600	60 $\pm$ 25%	100	0.35	200
SBL100505G-800	80 $\pm$ 25%	100	0.40	150
SBL100505G-121	120 $\pm$ 25%	100	0.50	150
SBL100505G-151	150 $\pm$ 25%	100	0.55	150
SBL100505G-181	180 $\pm$ 25%	100	0.60	150
SBL100505G-221	220 $\pm$ 25%	100	0.70	100
SBL100505G-301	300 $\pm$ 25%	100	0.80	100
SBL100505G-501	500 $\pm$ 25%	100	1.10	100
SBL100505G-610	600 $\pm$ 25%	100	1.30	100
SBL100505G-801	800 $\pm$ 25%	100	1.40	50
SBL100505G-102	1000 $\pm$ 25%	100	1.60	25

SBL160808G Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL160808G-000	0~15	100	0.10	800
SBL160808G-050	0~15	100	0.10	800
SBL160808G-070	0~11	100	0.10	800
SBL160808G-090	5~13	100	0.10	800
SBL160808G-110	7~15	100	0.10	800
SBL160808G-150	9~21	100	0.10	800
SBL160808G-190	12~25	100	0.10	500
SBL160808G-260	26 $\pm$ 25%	100	0.10	500
SBL160808G-310	31 $\pm$ 25%	100	0.10	500
SBL160808G-600	60 $\pm$ 25%	100	0.20	300
SBL160808G-700	70 $\pm$ 25%	100	0.20	300
SBL160808G-800	80 $\pm$ 25%	100	0.20	300
SBL160808G-101	100 $\pm$ 25%	100	0.30	200
SBL160808G-121	120 $\pm$ 25%	100	0.30	200
SBL160808G-151	150 $\pm$ 25%	100	0.35	200
SBL160808G-181	180 $\pm$ 25%	100	0.45	200
SBL160808G-221	220 $\pm$ 25%	100	0.45	200

Electrical Characteristics 电气性能

SBL160808G Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL160808G - 301	300 $\pm$ 25%	100	0.50	150
SBL160808G - 501	500 $\pm$ 25%	100	0.60	150
SBL160808G - 601	600 $\pm$ 25%	100	0.60	100
SBL160808G - 801	800 $\pm$ 25%	100	0.70	100
SBL160808G - 102	1000 $\pm$ 25%	100	0.80	100
SBL160808G - 122	1200 $\pm$ 25%	100	0.85	100
SBL160808G - 152	1500 $\pm$ 25%	100	0.85	50
SBL160808G - 202	2000 $\pm$ 25%	100	1.10	50
SBL160808G - 222	2200 $\pm$ 25%	100	1.20	50
SBL160808G - 252	2500 $\pm$ 25%	100	1.30	50

SBL201209G Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL201209G- 000	0~15	100	0.08	900
SBL201209G- 050	0~15	100	0.08	900
SBL201209G- 070	0~11	100	0.08	900
SBL201209G- 090	5~13	100	0.10	900
SBL201209G- 110	7~15	100	0.10	900
SBL201209G- 150	9~21	100	0.10	900
SBL201209G- 190	12~25	100	0.10	900
SBL201209G- 260	26 $\pm$ 25%	100	0.10	900
SBL201209G- 310	31 $\pm$ 25%	100	0.10	900
SBL201209G- 360	36 $\pm$ 25%	100	0.10	900
SBL201209G- 600	60 $\pm$ 25%	100	0.15	900
SBL201209G- 700	70 $\pm$ 25%	100	0.18	500
SBL201209G- 800	80 $\pm$ 25%	100	0.18	500
SBL201209G- 101	100 $\pm$ 25%	100	0.18	400
SBL201209G- 121	120 $\pm$ 25%	100	0.20	400
SBL201209G- 151	150 $\pm$ 25%	100	0.20	400
SBL201209G- 181	180 $\pm$ 25%	100	0.20	300
SBL201209G- 221	220 $\pm$ 25%	100	0.20	300
SBL201209G- 301	300 $\pm$ 25%	100	0.35	300
SBL201209G- 501	500 $\pm$ 25%	100	0.40	300
SBL201209G- 601	600 $\pm$ 25%	100	0.40	300
SBL201209G- 801	800 $\pm$ 25%	100	0.45	200
SBL201209G- 102	1000 $\pm$ 25%	100	0.45	200
SBL201209G- 122	1200 $\pm$ 25%	100	0.60	100
SBL201209G- 152	1500 $\pm$ 25%	100	0.70	100
SBL201209G- 202	2000 $\pm$ 25%	100	0.90	50
SBL201209G- 222	2200 $\pm$ 25%	100	1.00	50
SBL201209G- 252	2500 $\pm$ 25%	100	1.20	50
SBL201209G- 272	2700 $\pm$ 25%	100	1.40	30

Electrical Characteristics 电气性能

SBL321609G Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL321609G-000	0~15	100	0.10	1000
SBL321609G-050	0~15	100	0.10	1000
SBL321609G-070	0~11	100	0.10	1000
SBL321609G-090	5~13	100	0.10	1000
SBL321609G-110	7~15	100	0.10	1000
SBL321609G-150	9~21	100	0.10	1000
SBL321609G-190	12~25	100	0.10	1000
SBL321609G-260	26±25%	100	0.10	1000
SBL321609G-310	31±25%	100	0.10	1000
SBL321609G-600	60±25%	100	0.15	1000
SBL321609G-700	70±25%	100	0.15	1000
SBL321609G-800	80±25%	100	0.15	1000
SBL321609G-101	100±25%	100	0.25	1000
SBL321609G-121	120±25%	100	0.25	1000
SBL321609G-151	150±25%	100	0.30	400
SBL321609G-181	180±25%	100	0.30	400
SBL321609G-221	220±25%	100	0.35	400
SBL321609G-301	300±25%	100	0.40	400
SBL321609G-501	500±25%	100	0.45	300
SBL321609G-601	600±25%	100	0.45	300
SBL321609G-801	800±25%	100	0.55	300
SBL321609G-102	1000±25%	100	0.55	300
SBL321609G-122	1200±25%	100	0.60	100
SBL321609G-202	2000±25%	50	1.00	50

SBL322513G Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL322513G-110	7~15	100	0.10	1000
SBL322513G-190	12~25	100	0.10	1000
SBL322513G-260	26±25%	100	0.10	1000
SBL322513G-310	31±25%	100	0.10	1000
SBL322513G-600	60±25%	100	0.15	1000
SBL322513G-700	70±25%	100	0.20	1000
SBL322513G-800	80±25%	100	0.20	400
SBL322513G-900	90±25%	100	0.20	400
SBL322513G-101	100±25%	100	0.20	400
SBL322513G-121	120±25%	100	0.20	400
SBL322513G-151	150±25%	100	0.30	400
SBL322513G-181	180±25%	100	0.40	400
SBL322513G-221	220±25%	100	0.40	400

Electrical Characteristics 电气性能

SBL322513G Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL322513G- 301	300 $\pm$ 25%	100	0.40	400
SBL322513G- 501	500 $\pm$ 25%	100	0.40	300
SBL322513G- 601	600 $\pm$ 25%	100	0.40	300
SBL322513G- 801	800 $\pm$ 25%	100	0.40	300
SBL322513G- 102	1000 $\pm$ 25%	100	0.40	300

SBL451616G Series

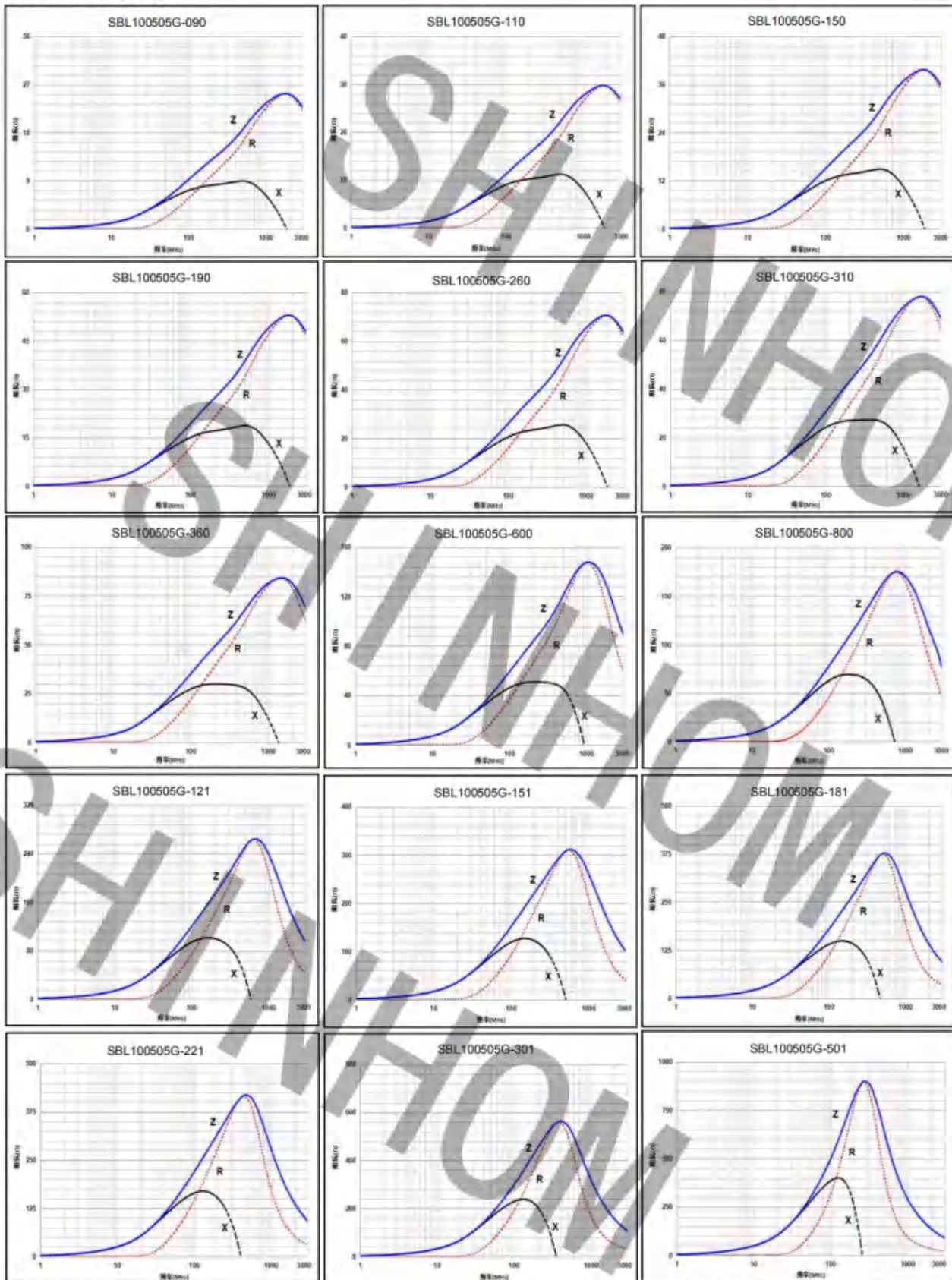
Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL451616G- 190	12~25	100	0.10	1000
SBL451616G- 260	26 $\pm$ 25%	100	0.10	1000
SBL451616G- 310	31 $\pm$ 25%	100	0.15	1000
SBL451616G- 600	60 $\pm$ 25%	100	0.20	1000
SBL451616G- 750	75 $\pm$ 25%	100	0.30	1000
SBL451616G- 800	80 $\pm$ 25%	100	0.30	1000
SBL451616G- 900	90 $\pm$ 25%	100	0.35	1000
SBL451616G- 121	120 $\pm$ 25%	100	0.40	500
SBL451616G- 151	150 $\pm$ 25%	100	0.40	500
SBL451616G- 221	220 $\pm$ 25%	100	0.45	500
SBL451616G- 301	300 $\pm$ 25%	100	0.45	500
SBL451616G- 501	500 $\pm$ 25%	100	0.50	200
SBL451616G- 601	600 $\pm$ 25%	100	0.50	200
SBL451616G- 801	800 $\pm$ 25%	100	0.55	200

SBL453215G Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL453215G- 300	30 $\pm$ 25%	100	0.15	1000
SBL453215G- 310	31 $\pm$ 25%	100	0.15	1000
SBL453215G- 380	38 $\pm$ 25%	100	0.15	1000
SBL453215G- 600	60 $\pm$ 25%	100	0.20	1000
SBL453215G- 700	70 $\pm$ 25%	100	0.20	1000
SBL453215G- 800	80 $\pm$ 25%	100	0.20	1000
SBL453215G- 900	90 $\pm$ 25%	100	0.20	500
SBL453215G- 101	100 $\pm$ 25%	100	0.20	500
SBL453215G- 121	120 $\pm$ 25%	100	0.25	500
SBL453215G- 151	150 $\pm$ 25%	100	0.25	500
SBL453215G- 221	220 $\pm$ 25%	100	0.30	300
SBL453215G- 301	300 $\pm$ 25%	100	0.30	300
SBL453215G- 601	600 $\pm$ 25%	100	0.40	200

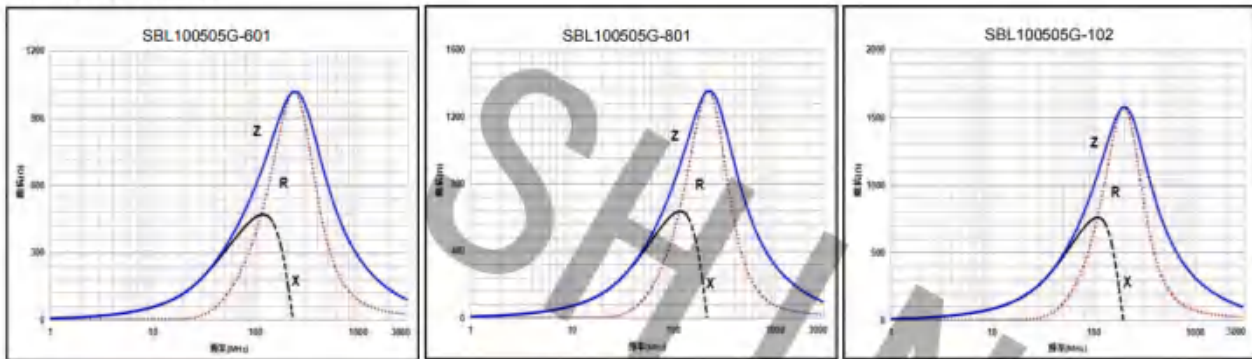
Impedance Frequency Characteristics 阻抗频率性能

SBL100505G Series

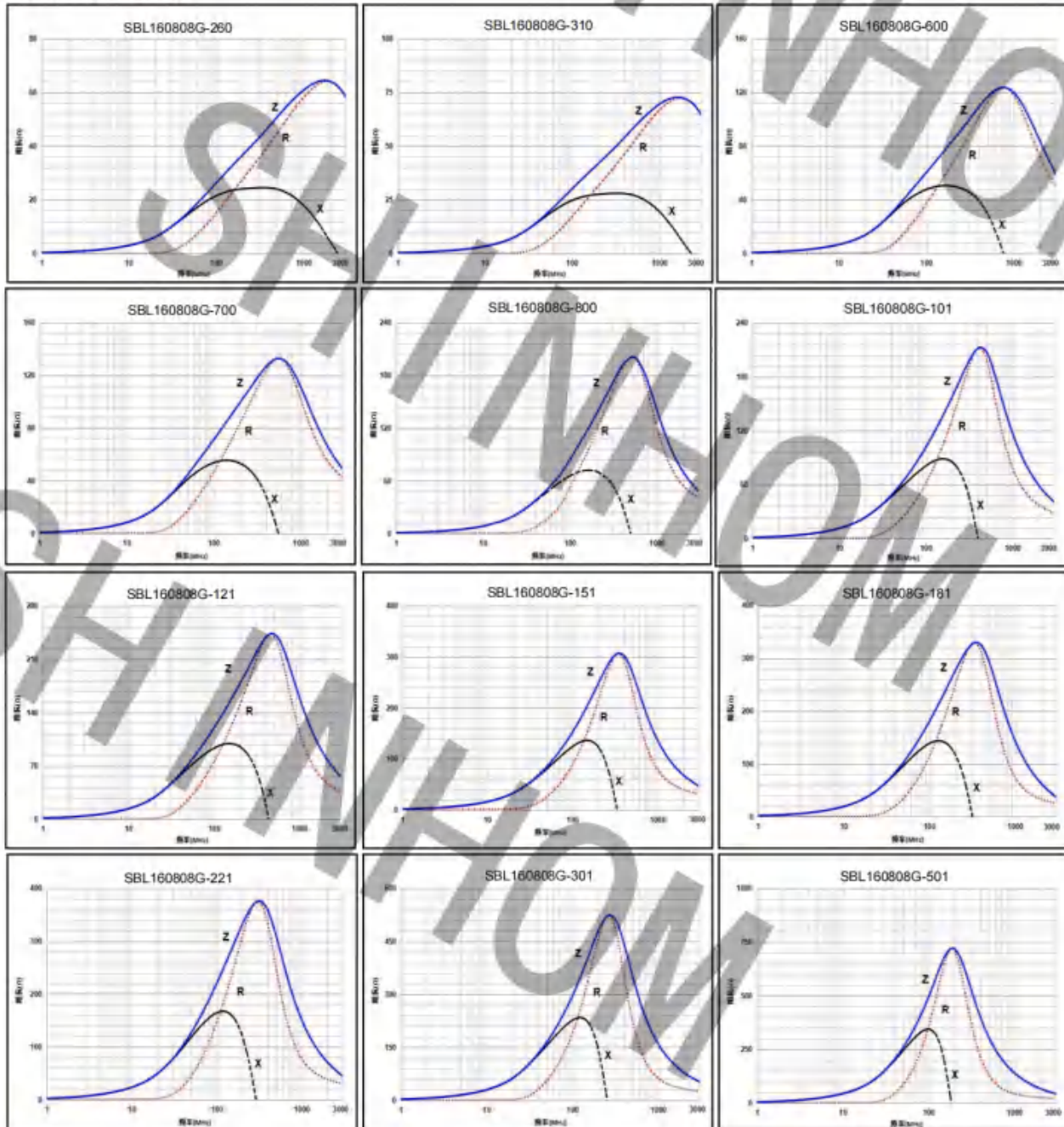


Impedance Frequency Characteristics 阻抗频率性能

SBL100505G Series

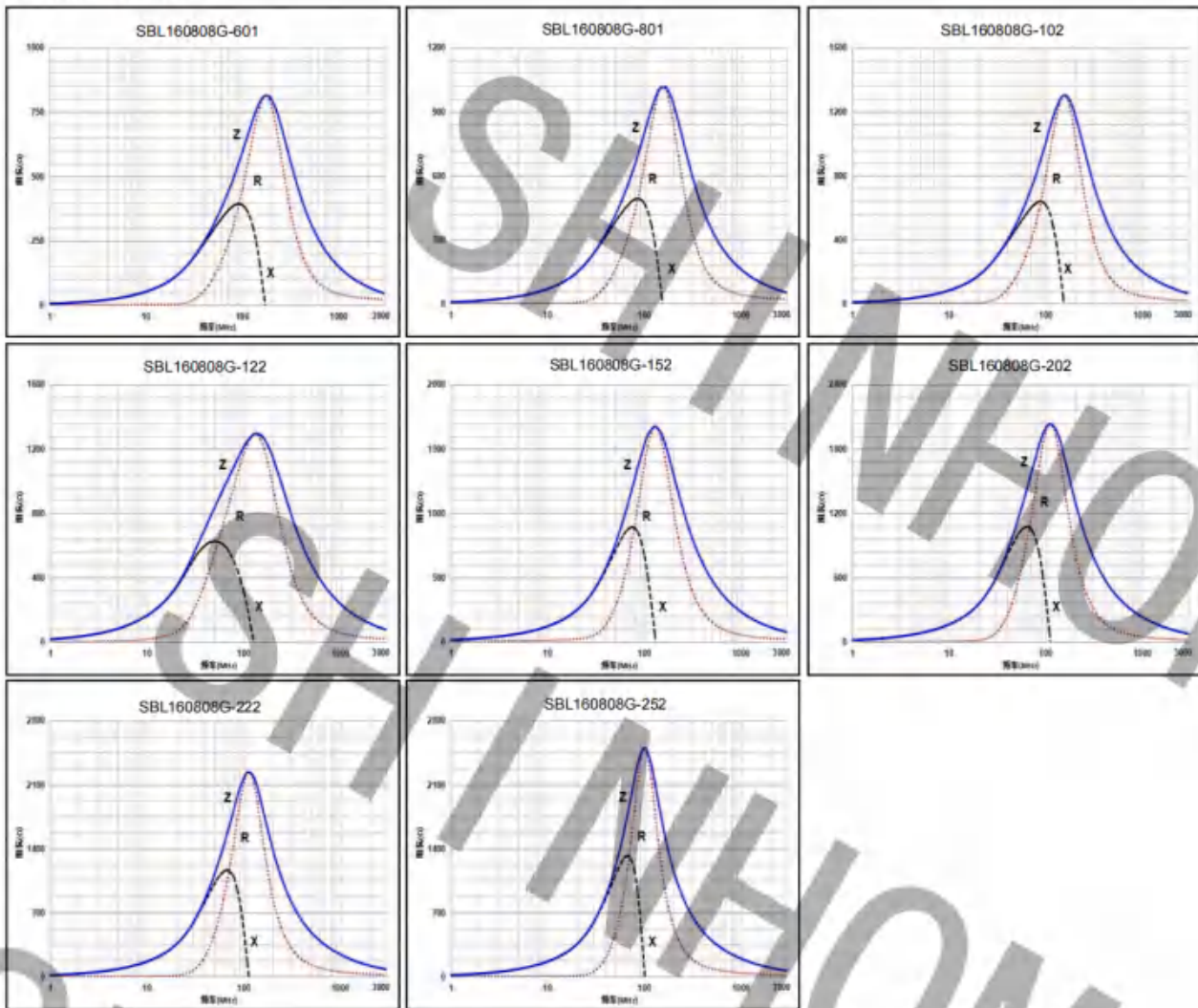


SBL160808G Series

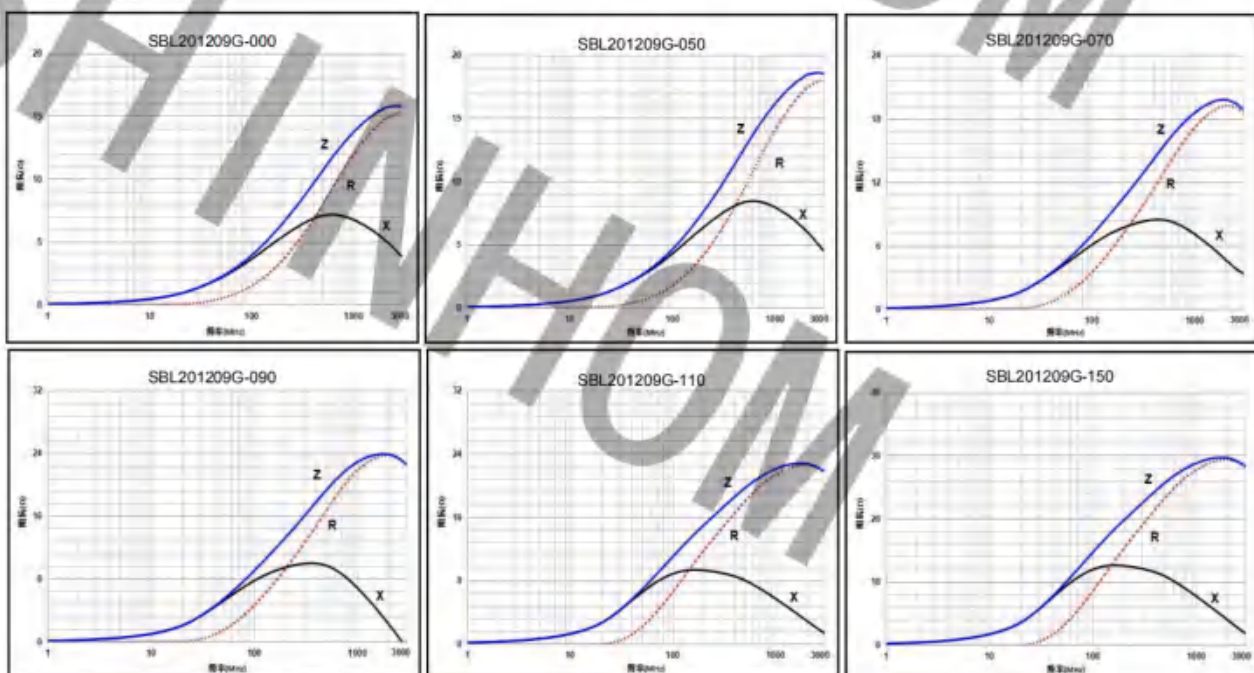


Impedance Frequency Characteristics 阻抗频率性能

SBL160808G Series

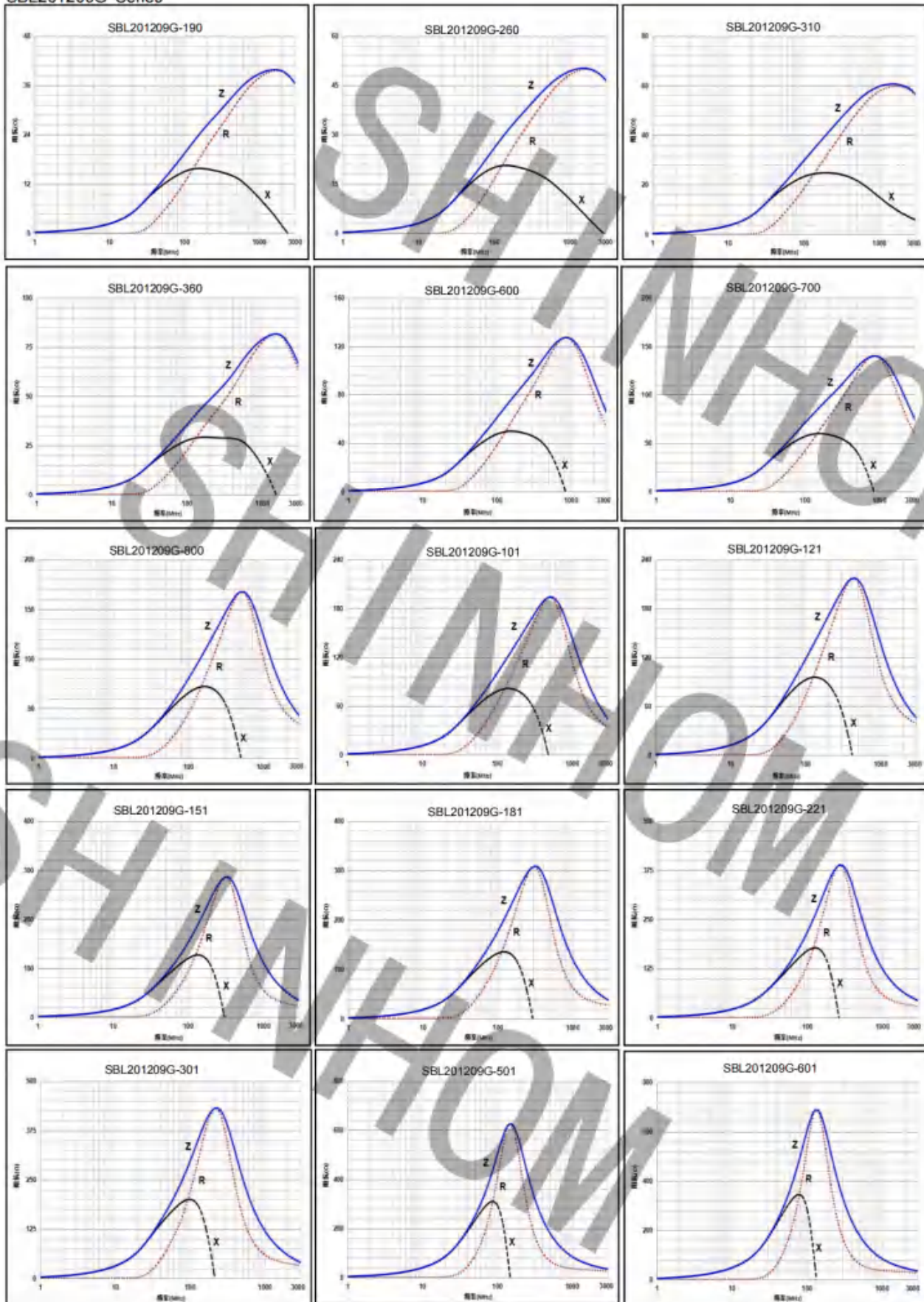


SBL201209G Series



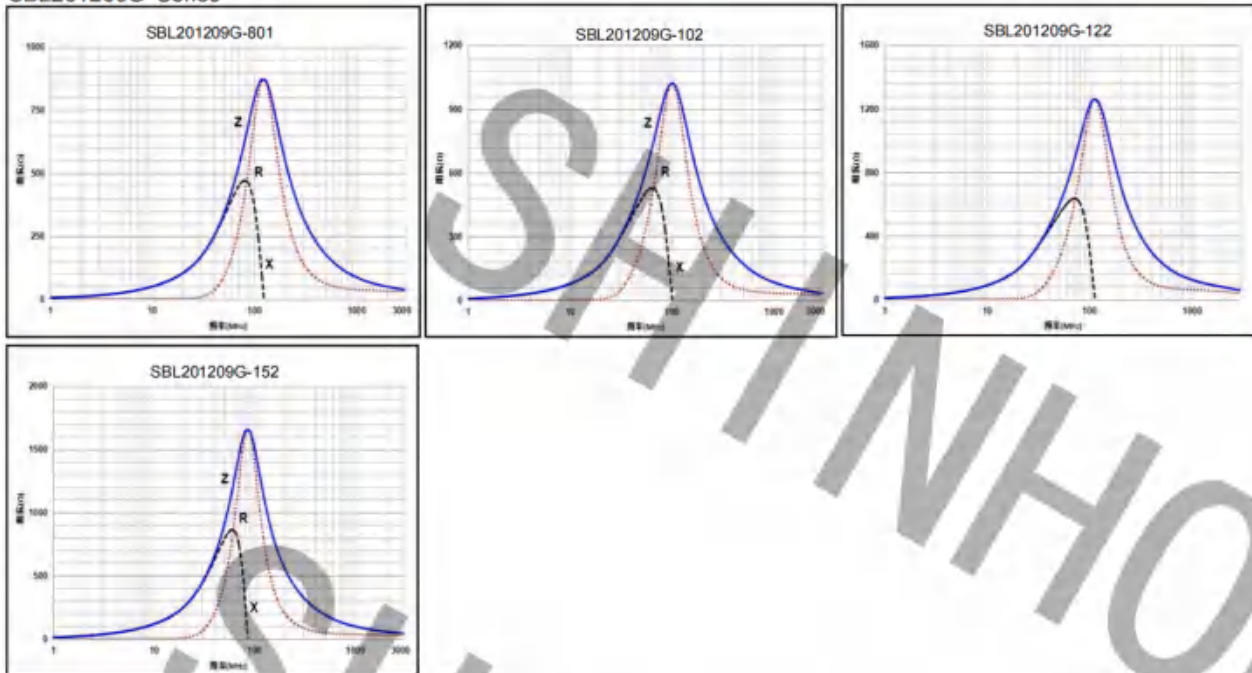
Impedance Frequency Characteristics 阻抗频率性能

SBL201209G Series

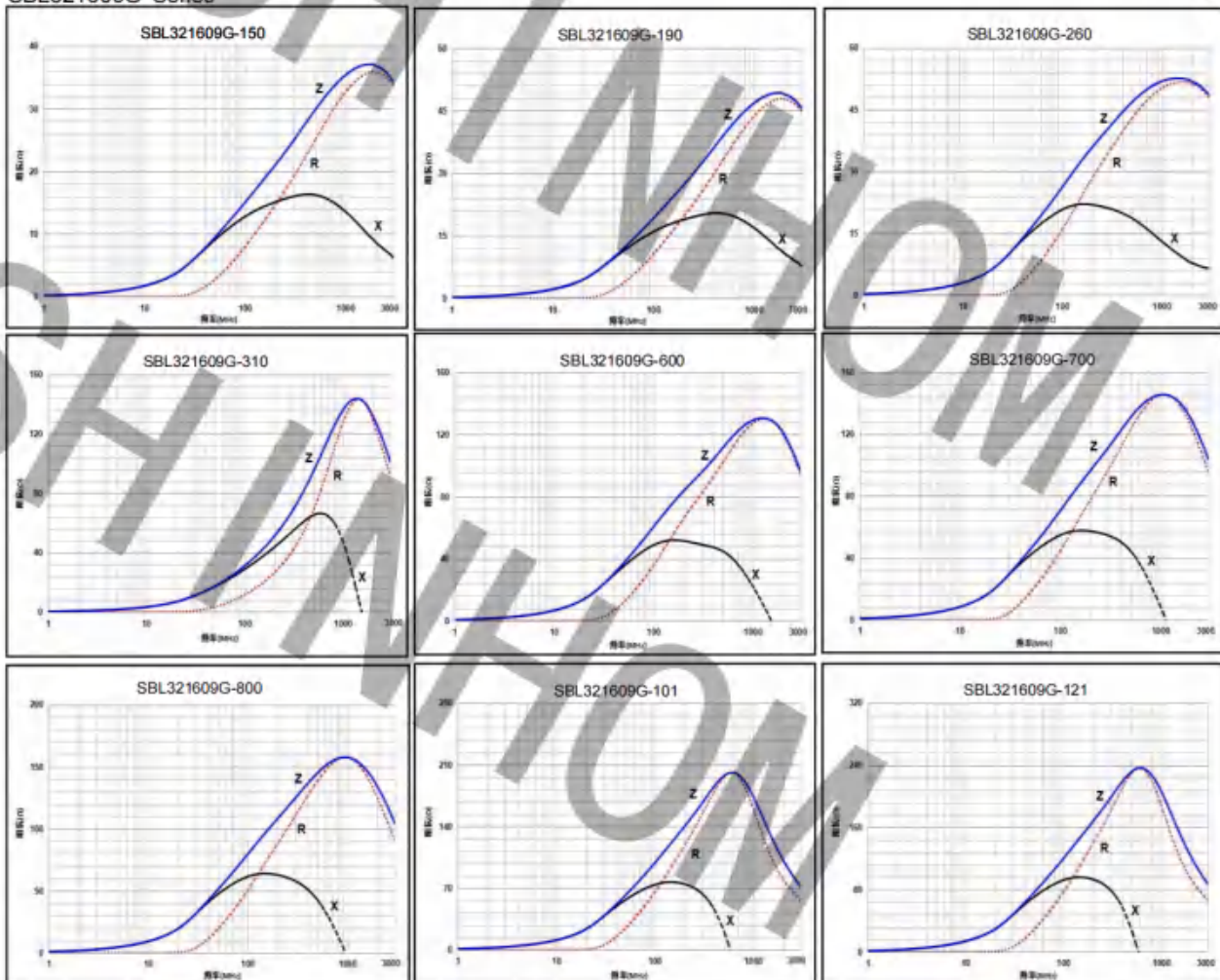


Impedance Frequency Characteristics 阻抗频率性能

SBL201209G Series

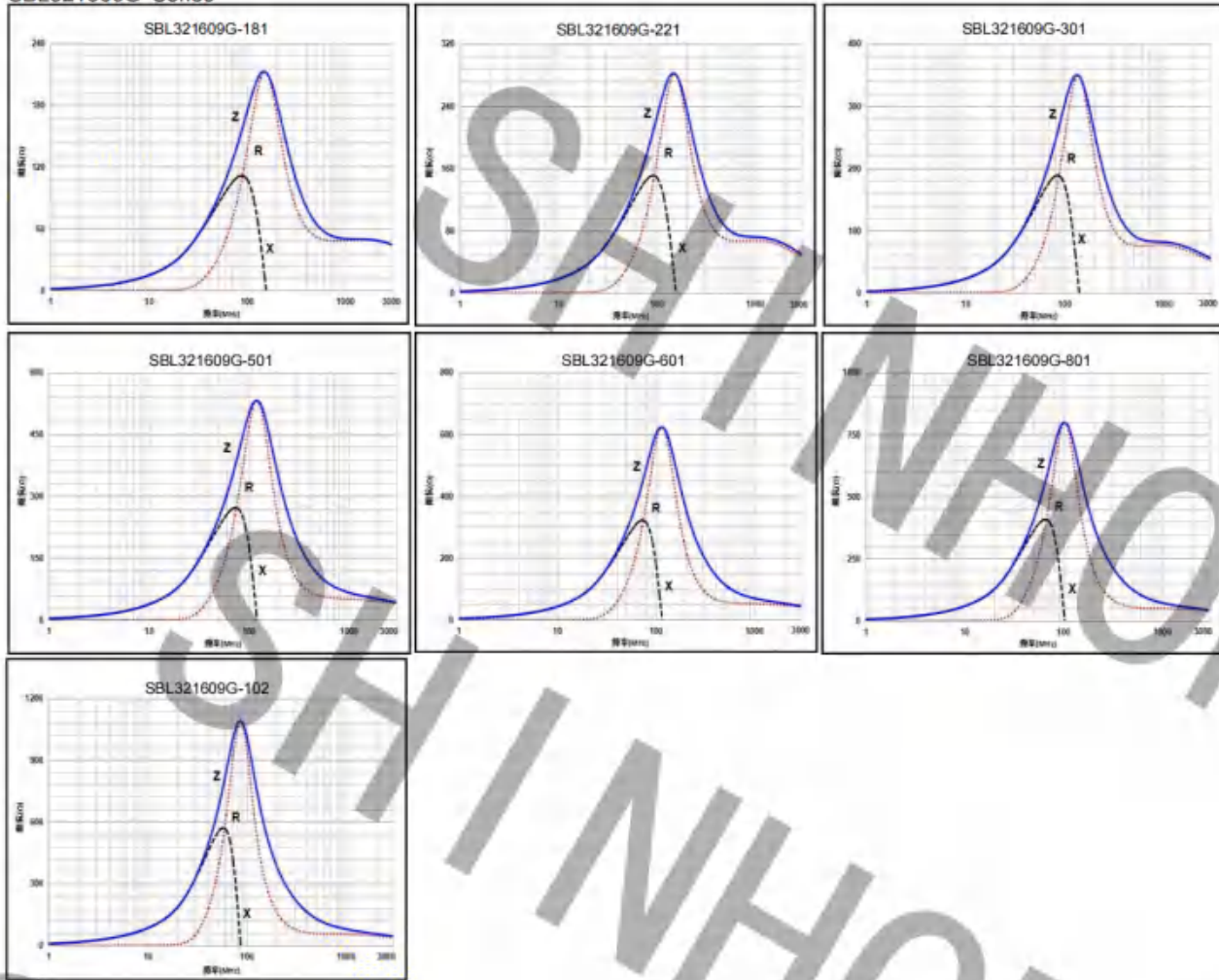


SBL321609G Series

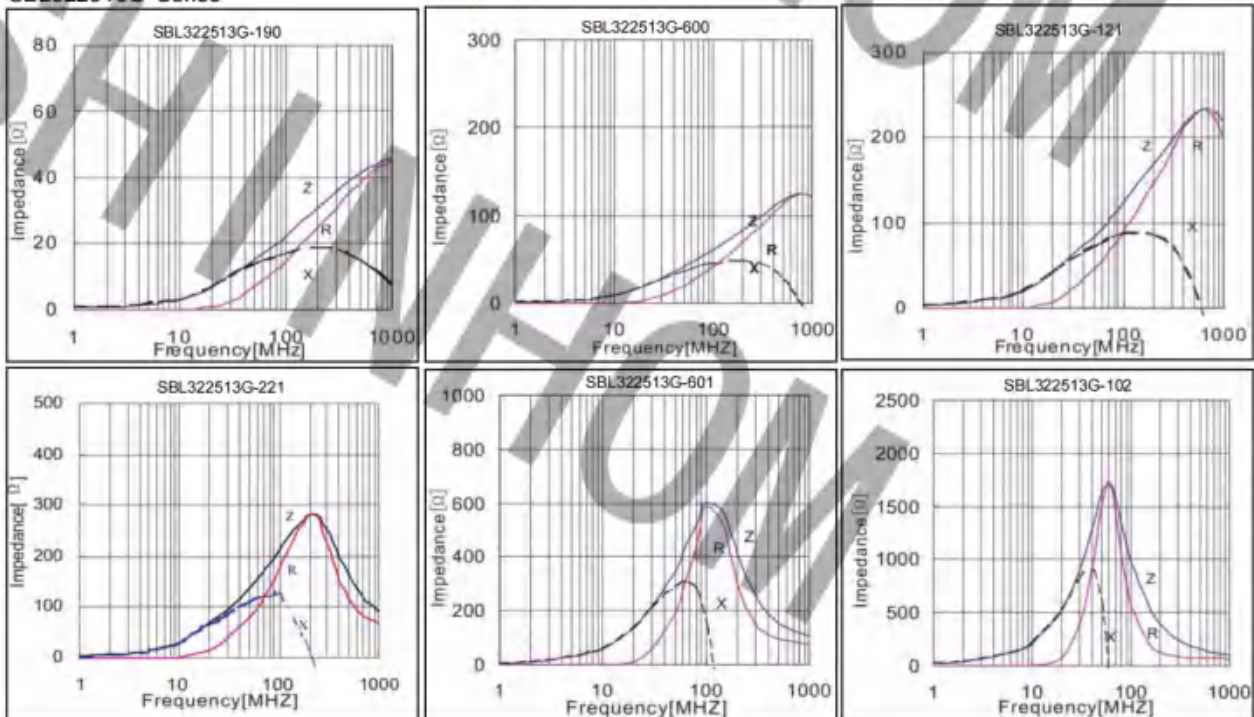


Impedance Frequency Characteristics 阻抗频率性能

SBL321609G Series

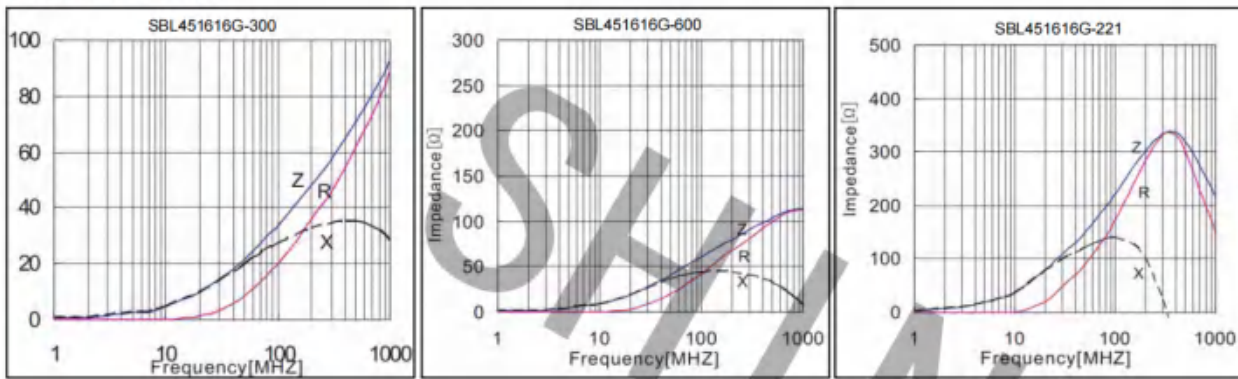


SBL322513G Series

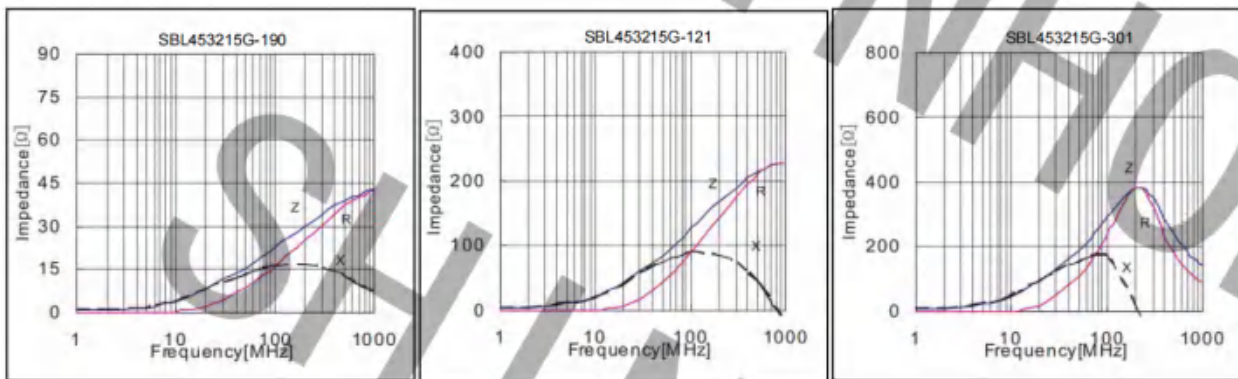


Impedance Frequency Characteristics 阻抗频率性能

SBL451616G Series



SBL453215G Series



Multilayer Chip High Frequency Bead SBLxxxxxxH Series

Features 特点

- Multilayer monolithic construction yields high reliability
独石结构、高可靠性
- High frequency noise countermeasure
对高频噪声有显著抑制
- Suitable for ultra high speed circuit
应用于超高频电路



Applications 应用

- Computers, mobile communication system products 电脑, 移动通讯系统
- Noise suppressing in ultra high speed circuit 超高速电路的噪声控制

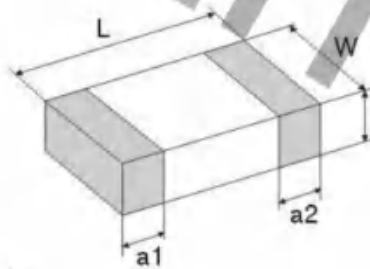
Product Identification 产品标识

SBL 321609 H 121

① ② ③ ④

- ① Series name 系列名称
- ② Dimension 产品尺寸 L×W×T: 【321609: 3.2mm×1.6mm×0.9mm】
- ③ Material code 材料代码
- ④ Impedance阻抗: 【100=10Ω 121=120Ω 102=1000Ω】

Shapes And Dimensions 外形及尺寸示意图



Type	Dimensions (mm) [inch]			
	L	W	T	a1, a2
100505 [0402]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
160808 [0603]	1.60±0.20 [0.063±0.008]	0.80±0.20 [0.031±0.008]	0.80±0.20 [0.031±0.008]	0.30±0.20 [0.012±0.008]
201209 [0805]	2.00±0.20 [0.079±0.008]	1.20±0.20 [0.049±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]
321609 [1206]	3.20±0.20 [0.126±0.008]	1.60±0.20 [0.063±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]

Electrical Characteristics 电气性能

SBL100505H Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL100505H- 310	31 $\pm$ 25%	100	0.20	300
SBL100505H- 600	60 $\pm$ 25%	100	0.35	200
SBL100505H- 800	80 $\pm$ 25%	100	0.40	200
SBL100505H- 121	120 $\pm$ 25%	100	0.50	150
SBL100505H- 181	180 $\pm$ 25%	100	0.60	150
SBL100505H- 301	300 $\pm$ 25%	100	0.80	100
SBL100505H- 501	500 $\pm$ 25%	100	1.1	100
SBL100505H- 601	600 $\pm$ 25%	100	1.3	100

SBL160808H Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL160808H- 000	0~15	100	0.15	600
SBL160808H- 050	0~15	100	0.15	600
SBL160808H- 070	0~11	100	0.15	600
SBL160808H- 090	5~13	100	0.15	500
SBL160808H- 110	7~15	100	0.15	500
SBL160808H- 150	9~21	100	0.15	500
SBL160808H- 190	12~25	100	0.15	500
SBL160808H- 310	31 $\pm$ 25%	100	0.15	500
SBL160808H- 600	60 $\pm$ 25%	100	0.15	500
SBL160808H- 800	80 $\pm$ 25%	100	0.20	300
SBL160808H- 121	120 $\pm$ 25%	100	0.20	200
SBL160808H- 151	150 $\pm$ 25%	100	0.30	200
SBL160808H- 221	220 $\pm$ 25%	100	0.40	200
SBL160808H- 301	300 $\pm$ 25%	100	0.50	150
SBL160808H- 501	500 $\pm$ 25%	100	0.60	100
SBL160808H- 601	600 $\pm$ 25%	100	0.60	100
SBL160808H- 801	800 $\pm$ 25%	100	0.70	100
SBL160808H- 102	1000 $\pm$ 25%	100	0.90	100
SBL160808H- 122	1200 $\pm$ 25%	100	0.90	100

Electrical Characteristics 电气性能

SBL201209H Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL201209- 000	0~15	100	0.15	1000
SBL201209- 050	0~15	100	0.15	1000
SBL201209- 070	0~11	100	0.15	1000
SBL201209- 090	5~13	100	0.15	1000
SBL201209- 110	7~15	100	0.15	1000
SBL201209- 150	9~21	100	0.15	1000
SBL201209- 190	12~25	100	0.15	1000
SBL201209- 260	26 $\pm$ 25%	100	0.15	1000
SBL201209- 310	31 $\pm$ 25%	100	0.15	1000
SBL201209- 700	70 $\pm$ 25%	100	0.25	400
SBL201209- 800	80 $\pm$ 25%	100	0.25	400
SBL201209- 121	120 $\pm$ 25%	100	0.25	400
SBL201209- 151	150 $\pm$ 25%	100	0.25	400
SBL201209- 221	220 $\pm$ 25%	100	0.30	400
SBL201209- 301	300 $\pm$ 25%	100	0.35	400
SBL201209- 501	500 $\pm$ 25%	100	0.40	200
SBL201209- 601	600 $\pm$ 25%	100	0.45	200
SBL201209- 801	800 $\pm$ 25%	100	0.50	180
SBL201209- 102	1000 $\pm$ 25%	100	0.60	180
SBL201209- 122	1200 $\pm$ 25%	100	0.60	100

SBL321609H Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL321609H- 000	0~15	100	0.10	1000
SBL321609H- 050	0~15	100	0.10	1000
SBL321609H- 070	0~11	100	0.10	1000
SBL321609H- 090	5~13	100	0.10	1000
SBL321609H- 110	7~15	100	0.10	1000
SBL321609H- 150	9~21	100	0.10	1000
SBL321609H- 190	12~25	100	0.10	1000
SBL321609H- 260	26 $\pm$ 25%	100	0.10	1000
SBL321609H- 310	31 $\pm$ 25%	100	0.10	1000
SBL321609H- 600	60 $\pm$ 25%	100	0.15	1000
SBL321609H- 700	70 $\pm$ 25%	100	0.15	1000
SBL321609H- 800	80 $\pm$ 25%	100	0.15	1000

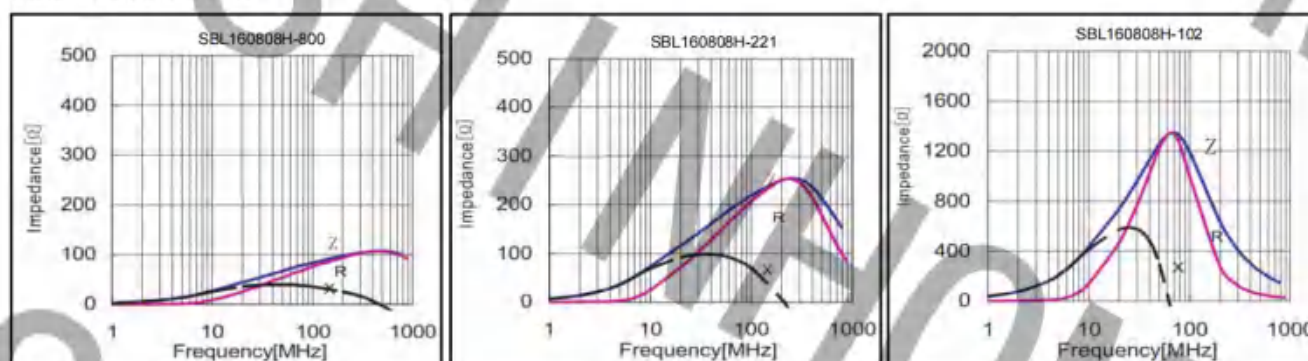
Electrical Characteristics 电气性能

SBL321609H Series

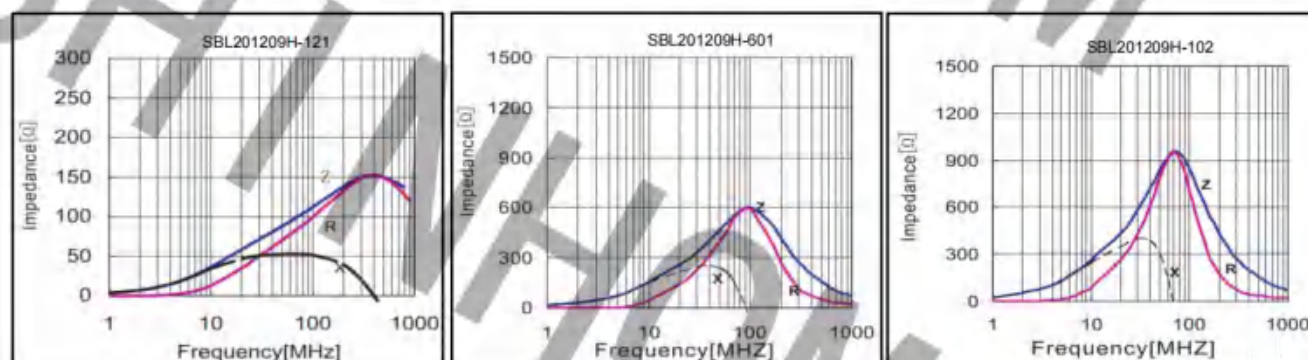
Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL321609H- 900	90 $\pm$ 25%	100	0.15	1000
SBL321609H- 121	120 $\pm$ 25%	100	0.20	1000
SBL321609H- 151	150 $\pm$ 25%	100	0.25	300
SBL321609H- 221	220 $\pm$ 25%	100	0.25	300
SBL321609H- 301	300 $\pm$ 25%	100	0.25	300
SBL321609H- 501	500 $\pm$ 25%	100	0.30	200
SBL321609H- 601	600 $\pm$ 25%	100	0.35	200
SBL321609H- 801	800 $\pm$ 25%	100	0.50	200

Impedance Frequency Characteristics 阻抗频率性能

SBL160808H Series



SBL201209H Series



Multilayer Chip Power Bead SBLxxxxxxM Series

Features 特点

- Multilayer monolithic construction yields high reliability
独石结构、高可靠性
- A unique terminal electrode structure ensures high permissible current, 6A max.
特别的设计可承受最大 6A 的电流
- High impedance over a wide frequency range
在较宽的频段具有高阻抗

Applications 应用

- Video equipment, audio equipment 视频音频设备
- Automotive electrical equipment 电气自动化设备
- Communication equipment 通讯设备
- OA equipment and other OA 设备及其它领域

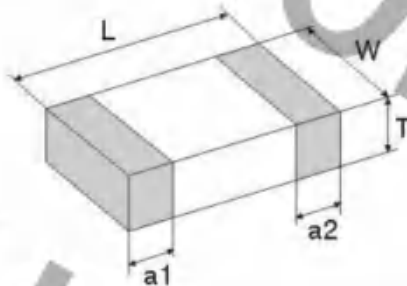
Product Identification 产品标识

SBL 201209 M 121

① ② ③ ④

- ① Series name 系列名称
- ② Dimension 产品尺寸L×W×T: 【201209: 2.0mm×1.2 mm×0.9mm】
- ③ Material code 材料代码
- ④ Impedance 阻抗: 【100=10Ω 101=100Ω 102=1000Ω】

Shapes And Dimensions 外形及尺寸示意图



Type	Dimensions (mm) [inch]			
	L	W	T	a1, a2
100505 [0402]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
160808 [0603]	1.60±0.20 [0.063±0.008]	0.80±0.20 [0.031±0.008]	0.80±0.20 [0.031±0.008]	0.30±0.20 [0.012±0.008]
201209 [0805]	2.00±0.20 [0.079±0.008]	1.20±0.20 [0.049±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]
321609 [1206]	3.20±0.20 [0.126±0.008]	1.60±0.20 [0.063±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]
322513 [1210]	3.20±0.20 [0.126±0.008]	2.50±0.20 [0.098±0.008]	1.30±0.20 [0.051±0.008]	0.50±0.30 [0.02±0.012]
451616 [1806]	4.50±0.20 [0.180±0.008]	1.60±0.20 [0.063±0.008]	1.60±0.20 [0.063±0.008]	0.50±0.30 [0.02±0.012]
453215 [1812]	4.50±0.20 [0.180±0.008]	3.20±0.20 [0.126±0.008]	1.50±0.20 [0.06±0.008]	0.50±0.30 [0.02±0.012]

Electrical Characteristics 电气性能

SBL100505M Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL100505M- 000	0~15	100	0.05	1800
SBL100505M- 050	0~15	100	0.05	1800
SBL100505M- 070	0~11	100	0.05	1800
SBL100505M- 090	5~13	100	0.05	1800
SBL100505M- 110	7~15	100	0.05	1800
SBL100505M- 150	9~21	100	0.05	1800
SBL100505M- 190	12~25	100	0.06	1500
SBL100505M- 300	30 $\pm$ 25%	100	0.08	1300
SBL100505M- 600	60 $\pm$ 25%	100	0.10	1000
SBL100505M- 121	120 $\pm$ 25%	100	0.15	800
SBL100505M- 151	150 $\pm$ 25%	100	0.20	700
SBL100505M- 201	200 $\pm$ 25%	100	0.25	700
SBL100505M- 221	220 $\pm$ 25%	100	0.30	600
SBL100505M- 301	300 $\pm$ 25%	100	0.30	600
SBL100505M- 601	600 $\pm$ 25%	100	0.50	500
SBL100505M- 801	800 $\pm$ 25%	100	0.65	300

SBL160808M Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL160808M- 000	0~15	100	0.02	6000
SBL160808M- 050	0~15	100	0.02	6000
SBL160808M- 070	0~11	100	0.02	6000
SBL160808M- 090	5~13	100	0.02	6000
SBL160808M- 110	7~15	100	0.03	5000
SBL160808M- 150	9~21	100	0.03	5000
SBL160808M- 190	12~25	100	0.03	5000
SBL160808M- 300	30 $\pm$ 25%	100	0.03	4000
SBL160808M- 600	60 $\pm$ 25%	100	0.04	3000
SBL160808M- 101	100 $\pm$ 25%	100	0.06	2500
SBL160808M- 121	120 $\pm$ 25%	100	0.065	2000
SBL160808M- 181	180 $\pm$ 25%	100	0.09	1500
SBL160808M- 221	220 $\pm$ 25%	100	0.12	1500
SBL160808M- 301	300 $\pm$ 25%	100	0.18	1500
SBL160808M- 501	500 $\pm$ 25%	100	0.18	1200
SBL160808M- 601	600 $\pm$ 25%	100	0.18	1200

Electrical Characteristics 电气性能

SBL201209M Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL201209M- 000	0~15	100	0.01	6000
SBL201209M- 050	0~15	100	0.01	6000
SBL201209M- 070	0~11	100	0.01	6000
SBL201209M- 090	5~13	100	0.01	6000
SBL201209M- 110	7~15	100	0.01	6000
SBL201209M- 150	9~21	100	0.01	6000
SBL201209M- 190	12~25	100	0.01	6000
SBL201209M- 300	30 $\pm$ 25%	100	0.01	6000
SBL201209M- 600	60 $\pm$ 25%	100	0.04	3500
SBL201209M- 800	80 $\pm$ 25%	100	0.04	3000
SBL201209M- 121	120 $\pm$ 25%	100	0.05	3000
SBL201209M- 181	180 $\pm$ 25%	100	0.08	2500
SBL201209M- 221	220 $\pm$ 25%	100	0.08	2500
SBL201209M- 301	300 $\pm$ 25%	100	0.08	2500
SBL201209M- 601	600 $\pm$ 25%	100	0.10	2000
SBL201209M- 102	1000 $\pm$ 25%	100	0.12	1500

SBL321609M Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL321609M- 000	0~15	100	0.01	6000
SBL321609M- 050	0~15	100	0.01	6000
SBL321609M- 070	0~11	100	0.01	6000
SBL321609M- 090	5~13	100	0.015	6000
SBL321609M- 110	7~15	100	0.015	6000
SBL321609M- 150	9~21	100	0.015	6000
SBL321609M- 190	12~25	100	0.015	6000
SBL321609M- 260	26 $\pm$ 25%	100	0.015	6000
SBL321609M- 280	28 $\pm$ 25%	100	0.015	6000
SBL321609M- 300	30 $\pm$ 25%	100	0.015	6000
SBL321609M- 310	31 $\pm$ 25%	100	0.025	4000
SBL321609M- 500	50 $\pm$ 25%	100	0.025	4000
SBL321609M- 600	60 $\pm$ 25%	100	0.025	4000
SBL321609M- 700	70 $\pm$ 25%	100	0.035	4000
SBL321609M- 800	80 $\pm$ 25%	100	0.035	4000
SBL321609M- 121	120 $\pm$ 25%	100	0.035	4000

Electrical Characteristics 电气性能

SBL321609M Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL321609M- 151	150 $\pm$ 25%	100	0.045	3000
SBL321609M- 221	220 $\pm$ 25%	100	0.055	3000
SBL321609M- 301	300 $\pm$ 25%	100	0.065	2500
SBL321609M- 501	500 $\pm$ 25%	100	0.085	2500
SBL321609M- 601	600 $\pm$ 25%	100	0.10	2000
SBL321609M- 801	800 $\pm$ 25%	100	0.11	2000
SBL321609M- 102	1000 $\pm$ 25%	100	0.12	2000

SBL451616M Series

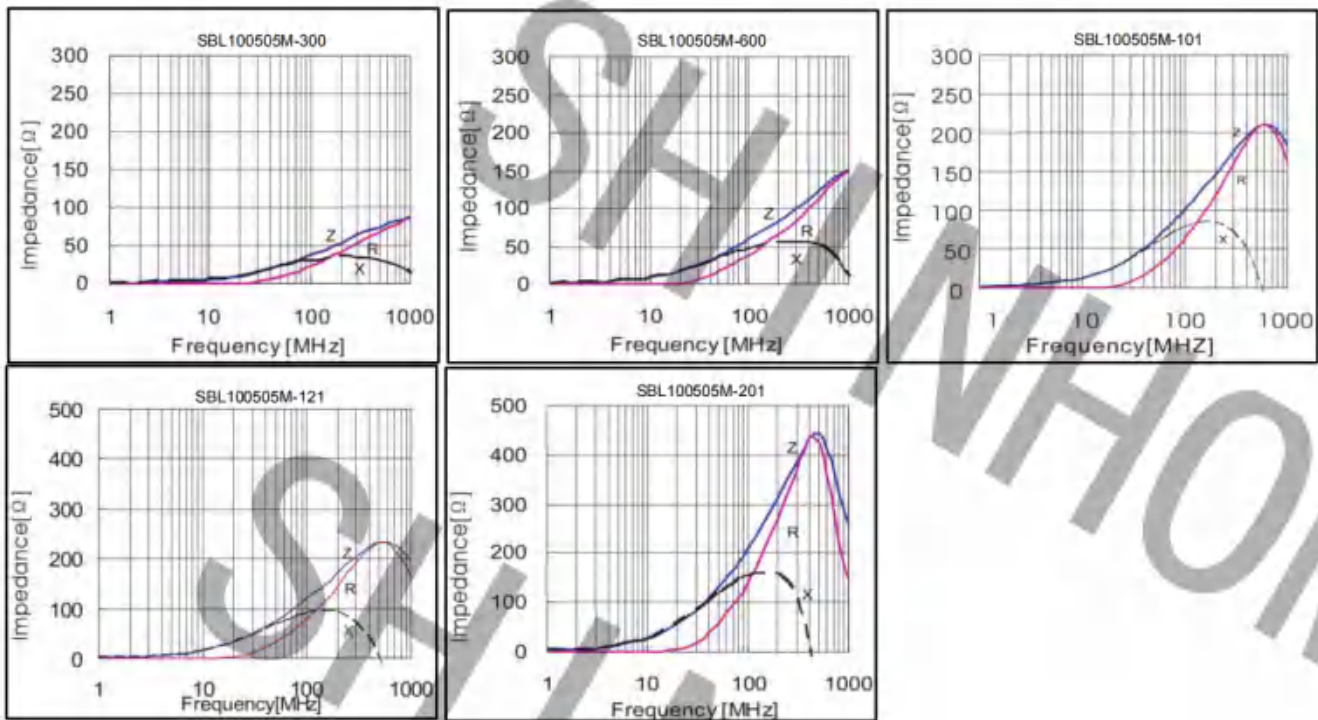
Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL451616M- 190	12~25	100	0.01	6000
SBL451616M- 260	26 $\pm$ 25%	100	0.015	6000
SBL451616M- 310	31 $\pm$ 25%	100	0.015	6000
SBL451616M- 600	60 $\pm$ 25%	100	0.015	6000
SBL451616M- 750	75 $\pm$ 25%	100	0.020	4000
SBL451616M- 800	80 $\pm$ 25%	100	0.025	3000

SBL453215M Series

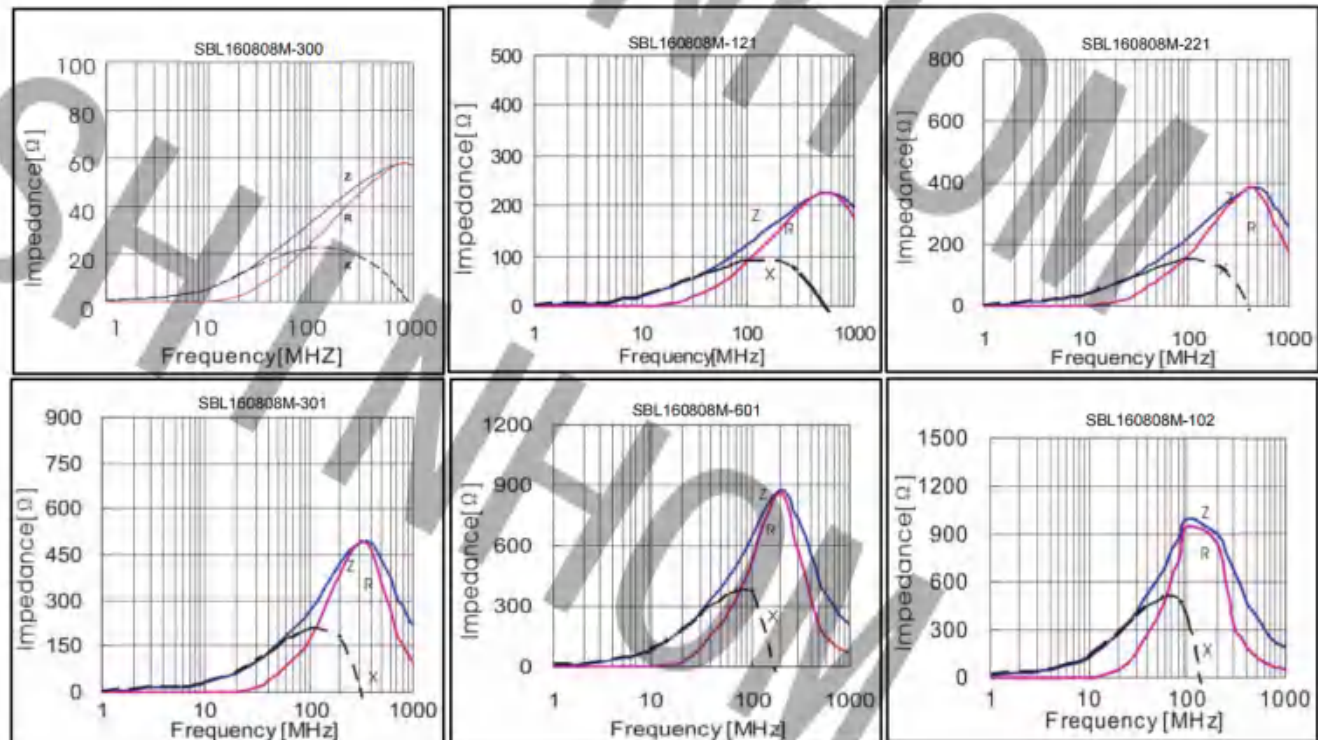
Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL453215M- 300	30 $\pm$ 25%	100	0.01	6000
SBL453215M- 310	31 $\pm$ 25%	100	0.01	6000
SBL453215M- 380	38 $\pm$ 25%	100	0.01	6000
SBL453215M- 400	40 $\pm$ 25%	100	0.01	6000
SBL453215M- 500	50 $\pm$ 25%	100	0.01	6000
SBL453215M- 600	60 $\pm$ 25%	100	0.01	6000
SBL453215M- 700	70 $\pm$ 25%	100	0.01	6000
SBL453215M- 101	100 $\pm$ 25%	100	0.02	6000
SBL453215M- 181	180 $\pm$ 25%	100	0.02	6000
SBL453215M- 221	220 $\pm$ 25%	100	0.02	6000

Impedance Frequency Characteristics 阻抗频率性能

SBL100505M Series

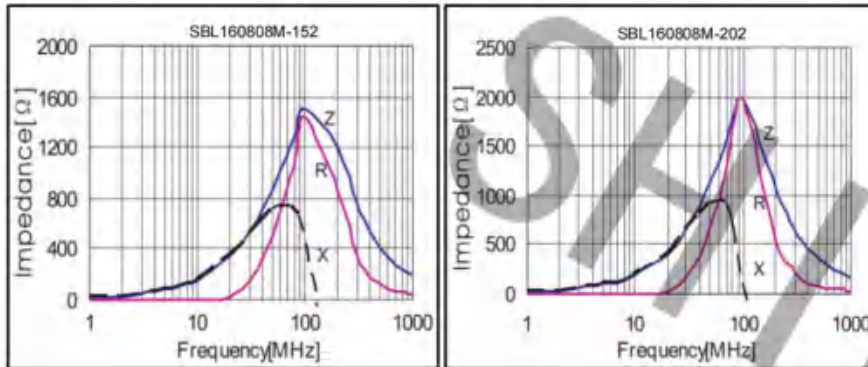


SBL160808M Series

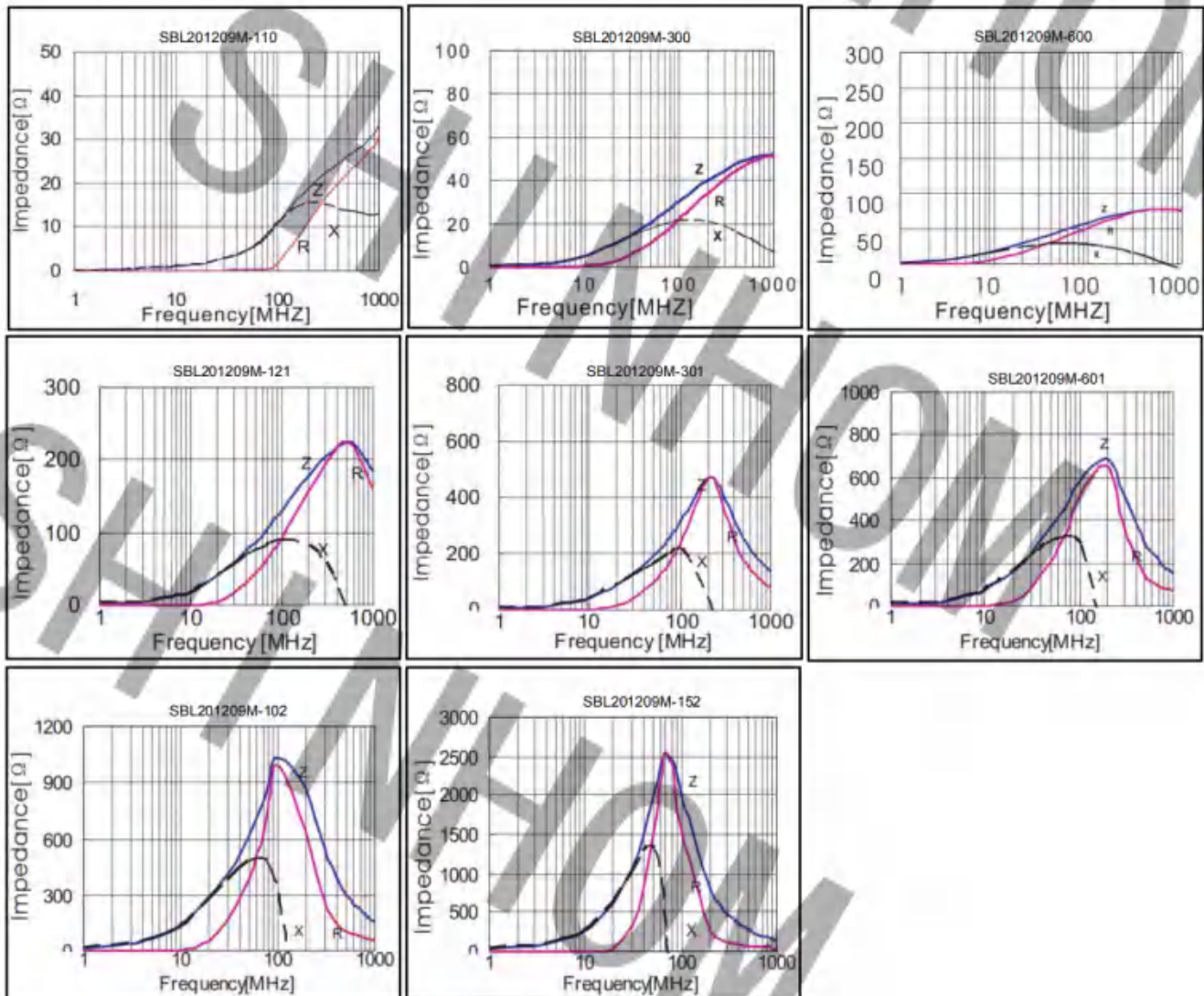


Impedance Frequency Characteristics 阻抗频率性能

SBL160808M Series



SBL201209M Series



Multilayer Chip Large Current Bead SBLxxxxxxW Series

Features 特点

- Multilayer monolithic construction yields high reliability

独石结构、高可靠性

- A unique terminal electrode structure ensures high permissible current, 6A max.

特别的设计可承受最大 6A 的电流

- High impedance over a wide frequency range

在较宽的频段具有高阻抗

Applications 应用

- Video equipment, audio equipment 视频音频设备
- Automotive electrical equipment 电气自动化设备
- Communication equipment 通讯设备
- OA equipment and other OA 设备及其它领域

Product Identification 产品标识

SBL 201209 W 121

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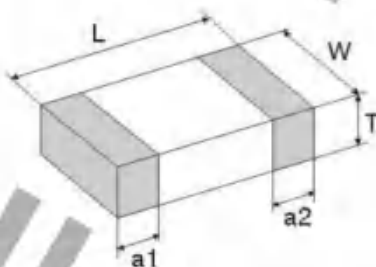
① Series name 系列名称

② Dimension 产品尺寸 L×W×T: 【201209: 2.0mm×1.2 mm×0.9mm】

③ Material code 材料代码

④ Impedance 阻抗: 【100=10Ω 101=100Ω 102=1000Ω】

Shapes And Dimensions 外形及尺寸示意图



Type	Dimensions (mm) [inch]			
	L	W	T	a1, a2
100505 [0402]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
160808 [0603]	1.60±0.20 [0.063±0.008]	0.80±0.20 [0.031±0.008]	0.80±0.20 [0.031±0.008]	0.30±0.20 [0.012±0.008]
201209 [0805]	2.00±0.20 [0.079±0.008]	1.20±0.20 [0.049±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]
321609 [1206]	3.20±0.20 [0.126±0.008]	1.60±0.20 [0.063±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]
322513 [1210]	3.20±0.20 [0.126±0.008]	2.50±0.20 [0.098±0.008]	1.30±0.20 [0.051±0.008]	0.50±0.30 [0.02±0.012]
451616 [1806]	4.50±0.20 [0.180±0.008]	1.60±0.20 [0.063±0.008]	1.60±0.20 [0.063±0.008]	0.50±0.30 [0.02±0.012]
453215 [1812]	4.50±0.20 [0.180±0.008]	3.20±0.20 [0.126±0.008]	1.50±0.20 [0.06±0.008]	0.50±0.30 [0.02±0.012]

Electrical Characteristics 电气性能

SBL100505W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL100505W- 000	0~15	100	0.04	800
SBL100505W- 050	0~15	100	0.04	800
SBL100505W- 070	0~11	100	0.04	800
SBL100505W- 090	5~13	100	0.04	800
SBL100505W- 110	7~15	100	0.04	800
SBL100505W- 150	9~21	100	0.04	800
SBL100505W- 190	12~25	100	0.06	700
SBL100505W- 260	26±25%	100	0.06	700
SBL100505W- 310	31±25%	100	0.08	700
SBL100505W- 360	36±25%	100	0.15	600
SBL100505W- 600	60±25%	100	0.15	600
SBL100505W- 800	80±25%	100	0.20	450
SBL100505W- 121	120±25%	100	0.25	450
SBL100505W- 151	150±25%	100	0.25	450
SBL100505W- 181	180±25%	100	0.40	300
SBL100505W- 221	220±25%	100	0.40	300
SBL100505W- 301	300±25%	100	0.50	300
SBL100505W- 501	500±25%	100	0.65	200
SBL100505W- 601	600±25%	100	0.70	200
SBL100505W- 801	800±25%	100	0.90	200
SBL100505W- 102	1000±25%	100	1.00	200

SBL160808W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL160808W- 000	0~15	100	0.08	1000
SBL160808W- 050	0~15	100	0.08	1000
SBL160808W- 070	0~11	100	0.08	1000
SBL160808W- 090	5~13	100	0.08	1000
SBL160808W- 110	7~15	100	0.08	1000
SBL160808W- 150	9~21	100	0.08	1000
SBL160808W- 190	12~25	100	0.08	1000
SBL160808W- 260	26±25%	100	0.08	1000
SBL160808W- 300	30±25%	100	0.08	1000
SBL160808W- 310	31±25%	100	0.08	1000
SBL160808W- 600	60±25%	100	0.12	1000
SBL160808W- 800	80±25%	100	0.20	1000
SBL160808W- 101	100±25%	100	0.20	1000
SBL160808W- 121	120±25%	100	0.20	1000

Electrical Characteristics 电气性能

SBL160808W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL160808W- 151	150 $\pm$ 25%	100	0.25	1000
SBL160808W- 181	180 $\pm$ 25%	100	0.25	1000
SBL160808W- 221	220 $\pm$ 25%	100	0.30	1000
SBL160808W- 301	300 $\pm$ 25%	100	0.30	1000
SBL160808W- 501	500 $\pm$ 25%	100	0.40	1000
SBL160808W- 601	600 $\pm$ 25%	100	0.40	1000
SBL160808W- 801	800 $\pm$ 25%	100	0.55	500
SBL160808W- 102	1000 $\pm$ 25%	100	0.55	500
SBL160808W- 122	1200 $\pm$ 25%	100	0.65	500
SBL160808W- 152	1500 $\pm$ 25%	100	0.75	400
SBL160808W- 182	1800 $\pm$ 25%	100	0.75	400
SBL160808W- 202	2000 $\pm$ 25%	100	0.90	400

SBL201209W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL201209W- 000	0~15	100	0.03	3000
SBL201209W- 050	0~15	100	0.03	3000
SBL201209W- 070	0~11	100	0.03	3000
SBL201209W- 090	5~13	100	0.03	3000
SBL201209W- 110	7~15	100	0.03	3000
SBL201209W- 150	9~21	100	0.03	3000
SBL201209W- 190	12~25	100	0.03	3000
SBL201209W- 300	30 $\pm$ 25%	100	0.05	3000
SBL201209W- 310	31 $\pm$ 25%	100	0.05	3000
SBL201209W- 360	36 $\pm$ 25%	100	0.06	3000
SBL201209W- 600	60 $\pm$ 25%	100	0.06	3000
SBL201209W- 800	80 $\pm$ 25%	100	0.08	2500
SBL201209W- 101	100 $\pm$ 25%	100	0.10	2500
SBL201209W- 121	120 $\pm$ 25%	100	0.10	2000
SBL201209W- 151	150 $\pm$ 25%	100	0.10	2000
SBL201209W- 181	180 $\pm$ 25%	100	0.15	2000
SBL201209W- 201	200 $\pm$ 25%	100	0.15	2000
SBL201209W- 221	220 $\pm$ 25%	100	0.15	2000
SBL201209W- 301	300 $\pm$ 25%	100	0.20	2000
SBL201209W- 501	500 $\pm$ 25%	100	0.25	1500
SBL201209W- 601	600 $\pm$ 25%	100	0.25	1500
SBL201209W- 801	800 $\pm$ 25%	100	0.30	800
SBL201209W- 102	1000 $\pm$ 25%	100	0.30	800
SBL201209W- 122	1200 $\pm$ 25%	100	0.45	500
SBL201209W- 252	2500 $\pm$ 25%	50	0.60	100

Electrical Characteristics 电气性能

SBL321609W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL321609W- 000	0~15	100	0.04	4000
SBL321609W- 050	0~15	100	0.04	4000
SBL321609W- 070	0~11	100	0.04	4000
SBL321609W- 090	5~13	100	0.05	4000
SBL321609W- 110	7~15	100	0.05	4000
SBL321609W- 150	9~21	100	0.05	3000
SBL321609W- 190	12~25	100	0.05	3000
SBL321609W- 000	26 $\pm$ 25%	100	0.05	3000
SBL321609W- 050	28 $\pm$ 25%	100	0.05	3000
SBL321609W- 070	30 $\pm$ 25%	100	0.07	3000
SBL321609W- 090	31 $\pm$ 25%	100	0.08	3000
SBL321609W- 110	50 $\pm$ 25%	100	0.10	3000
SBL321609W- 150	60 $\pm$ 25%	100	0.10	3000
SBL321609W- 190	70 $\pm$ 25%	100	0.10	3000
SBL321609W- 000	80 $\pm$ 25%	100	0.10	3000
SBL321609W- 050	100 $\pm$ 25%	100	0.10	3000
SBL321609W- 070	120 $\pm$ 25%	100	0.10	3000
SBL321609W- 090	150 $\pm$ 25%	100	0.15	2500
SBL321609W- 110	180 $\pm$ 25%	100	0.20	2500
SBL321609W- 150	220 $\pm$ 25%	100	0.20	2500
SBL321609W- 190	300 $\pm$ 25%	100	0.20	2000
SBL321609W- 000	500 $\pm$ 25%	100	0.20	2000
SBL321609W- 050	600 $\pm$ 25%	100	0.25	2000
SBL321609W- 070	800 $\pm$ 25%	100	0.25	2000
SBL321609W- 090	1000 $\pm$ 25%	100	0.30	2000
SBL321609W- 110	1200 $\pm$ 25%	100	0.35	1000
SBL321609W- 150	1500 $\pm$ 25%	50	0.45	500
SBL321609W- 190	1800 $\pm$ 25%	50	0.60	500
SBL321609W- 190	2000 $\pm$ 25%	50	0.70	300

SBL322513W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL322513W- 110	7~15	100	0.05	5000
SBL322513W- 190	12~25	100	0.05	5000
SBL322513W- 260	26 $\pm$ 25%	100	0.05	5000
SBL322513W- 310	31 $\pm$ 25%	100	0.05	5000
SBL322513W- 600	60 $\pm$ 25%	100	0.06	4000
SBL322513W- 700	70 $\pm$ 25%	100	0.08	3000
SBL322513W- 800	80 $\pm$ 25%	100	0.08	3000
SBL322513W- 900	90 $\pm$ 25%	100	0.08	3000
SBL322513W- 121	120 $\pm$ 25%	100	0.10	3000
SBL322513W- 151	150 $\pm$ 25%	100	0.10	3000

Electrical Characteristics 电气性能
SBL322513W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL322513W- 181	180 $\pm$ 25%	100	0.15	3000
SBL322513W- 221	220 $\pm$ 25%	100	0.15	3000
SBL322513W- 301	300 $\pm$ 25%	100	0.15	3000
SBL322513W- 501	500 $\pm$ 25%	100	0.15	2000
SBL322513W- 601	600 $\pm$ 25%	100	0.20	2000
SBL322513W- 801	800 $\pm$ 25%	100	0.25	2000
SBL322513W- 102	1000 $\pm$ 25%	100	0.30	2000

SBL451616W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL451616W- 190	12~25	100	0.015	6000
SBL451616W- 260	26 $\pm$ 25%	100	0.05	3000
SBL451616W- 310	31 $\pm$ 25%	100	0.05	3000
SBL451616W- 600	60 $\pm$ 25%	100	0.06	3000
SBL451616W- 750	75 $\pm$ 25%	100	0.06	3000
SBL451616W- 800	80 $\pm$ 25%	100	0.08	3000
SBL451616W- 900	90 $\pm$ 25%	100	0.10	3000
SBL451616W- 121	120 $\pm$ 25%	100	0.10	3000
SBL451616W- 151	150 $\pm$ 25%	100	0.10	3000
SBL451616W- 221	220 $\pm$ 25%	100	0.15	2000
SBL451616W- 301	300 $\pm$ 25%	100	0.20	2000
SBL451616W- 501	500 $\pm$ 25%	100	0.25	1000
SBL451616W- 601	600 $\pm$ 25%	100	0.30	1000

SBL453215W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL453215W- 300	30 $\pm$ 25%	100	0.06	5000
SBL453215W- 310	31 $\pm$ 25%	100	0.06	5000
SBL453215W- 380	38 $\pm$ 25%	100	0.06	5000
SBL453215W- 400	40 $\pm$ 25%	100	0.06	4000
SBL453215W- 500	50 $\pm$ 25%	100	0.06	4000
SBL453215W- 600	60 $\pm$ 25%	100	0.06	4000
SBL453215W- 700	70 $\pm$ 25%	100	0.06	4000
SBL453215W- 800	80 $\pm$ 25%	100	0.08	4000
SBL453215W- 900	90 $\pm$ 25%	100	0.08	4000
SBL453215W- 101	100 $\pm$ 25%	100	0.08	4000
SBL453215W- 121	120 $\pm$ 25%	100	0.08	4000
SBL453215W- 151	150 $\pm$ 25%	100	0.10	3000
SBL453215W- 181	180 $\pm$ 25%	100	0.12	3000
SBL453215W- 201	200 $\pm$ 25%	100	0.12	3000
SBL453215W- 221	220 $\pm$ 25%	100	0.15	2000

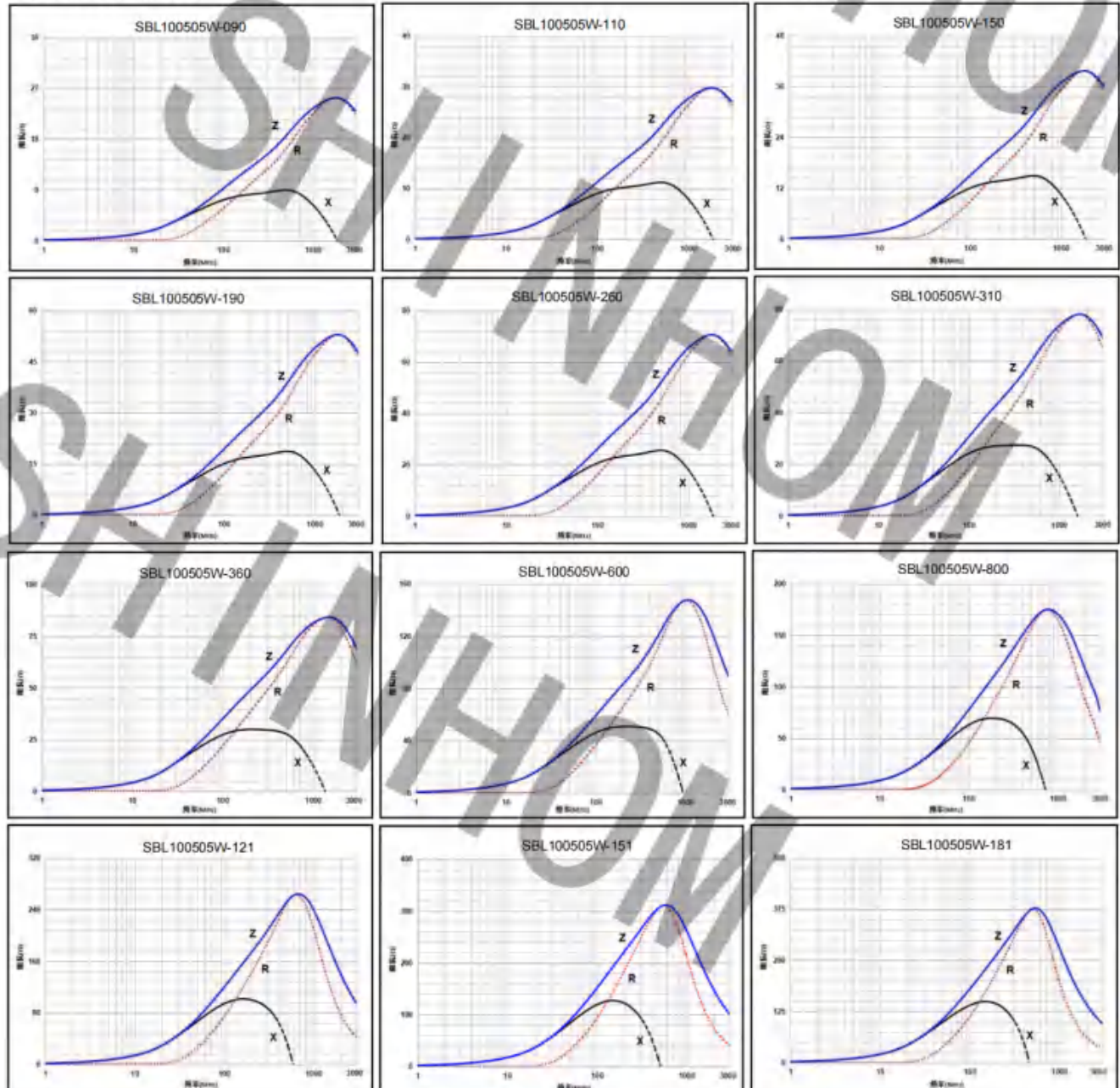
Electrical Characteristics 电气性能

SBL453215W Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL453215W-301	300 $\pm$ 25%	100	0.15	2000
SBL453215W-401	400 $\pm$ 25%	100	0.20	1000
SBL453215W-501	500 $\pm$ 25%	100	0.20	1000
SBL453215W-601	600 $\pm$ 25%	100	0.25	1000
SBL453215W-801	800 $\pm$ 25%	100	0.30	1000
SBL453215W-102	1000 $\pm$ 25%	100	0.35	800

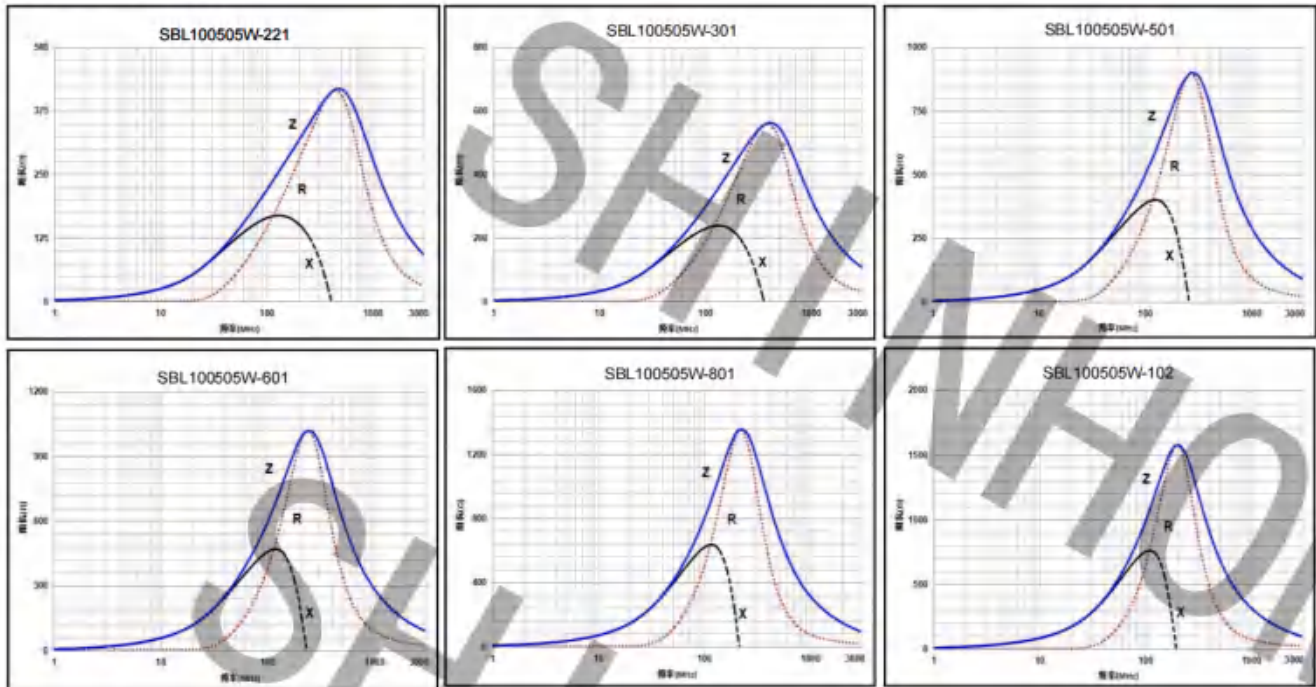
Impedance Frequency Characteristics 阻抗频率性能

SBL100505W Series

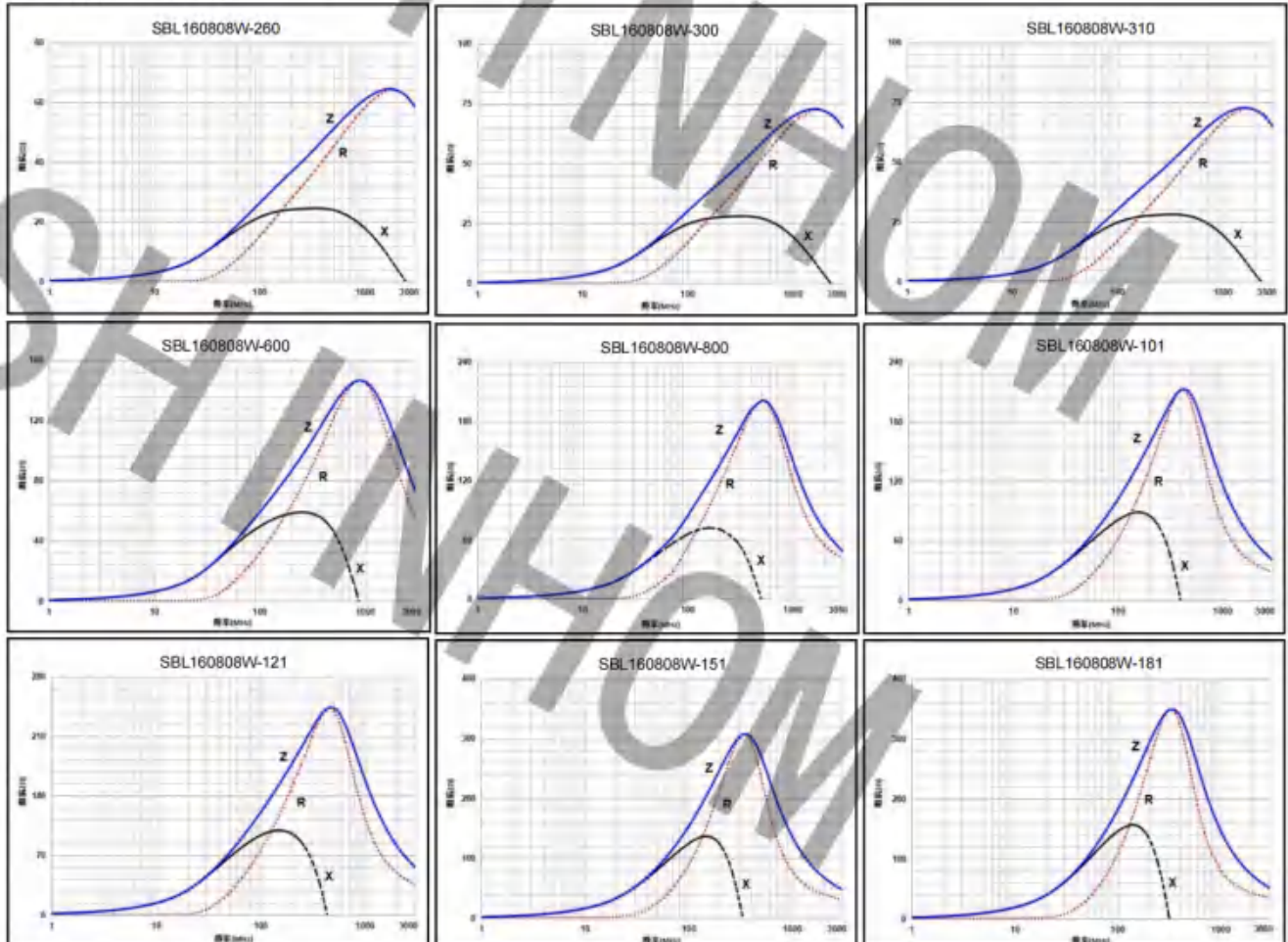


Impedance Frequency Characteristics 阻抗频率性能

SBL100505W Series

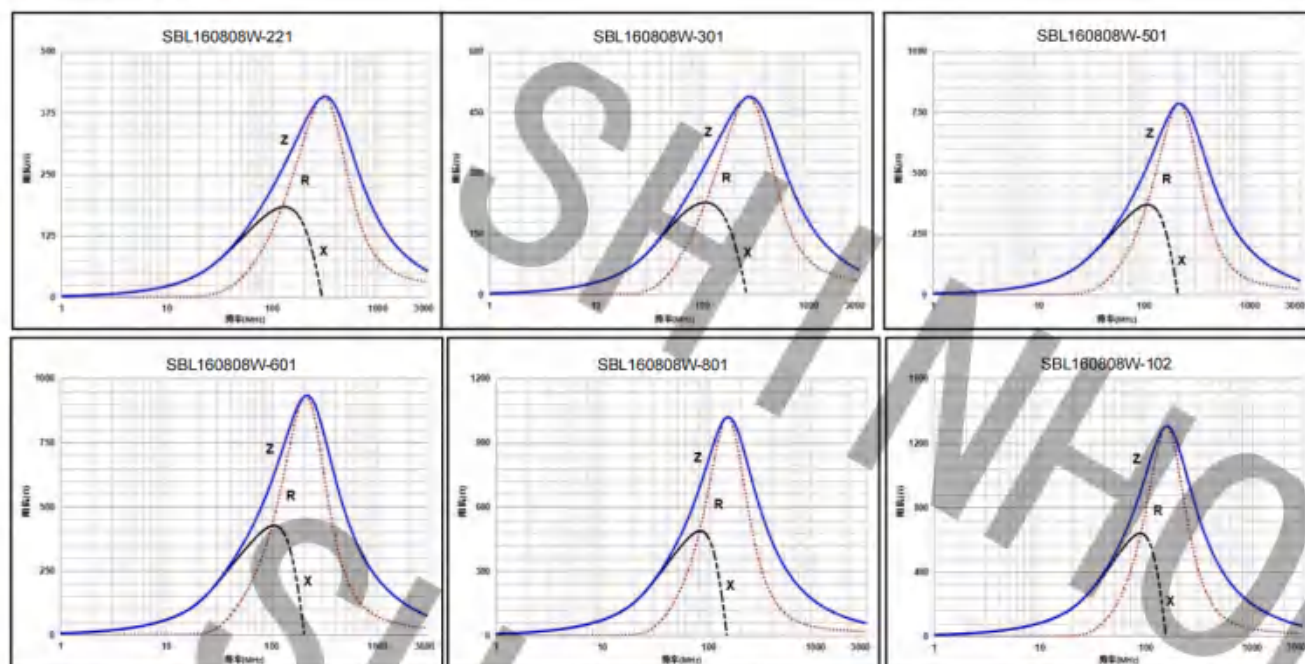


SBL160808W Series

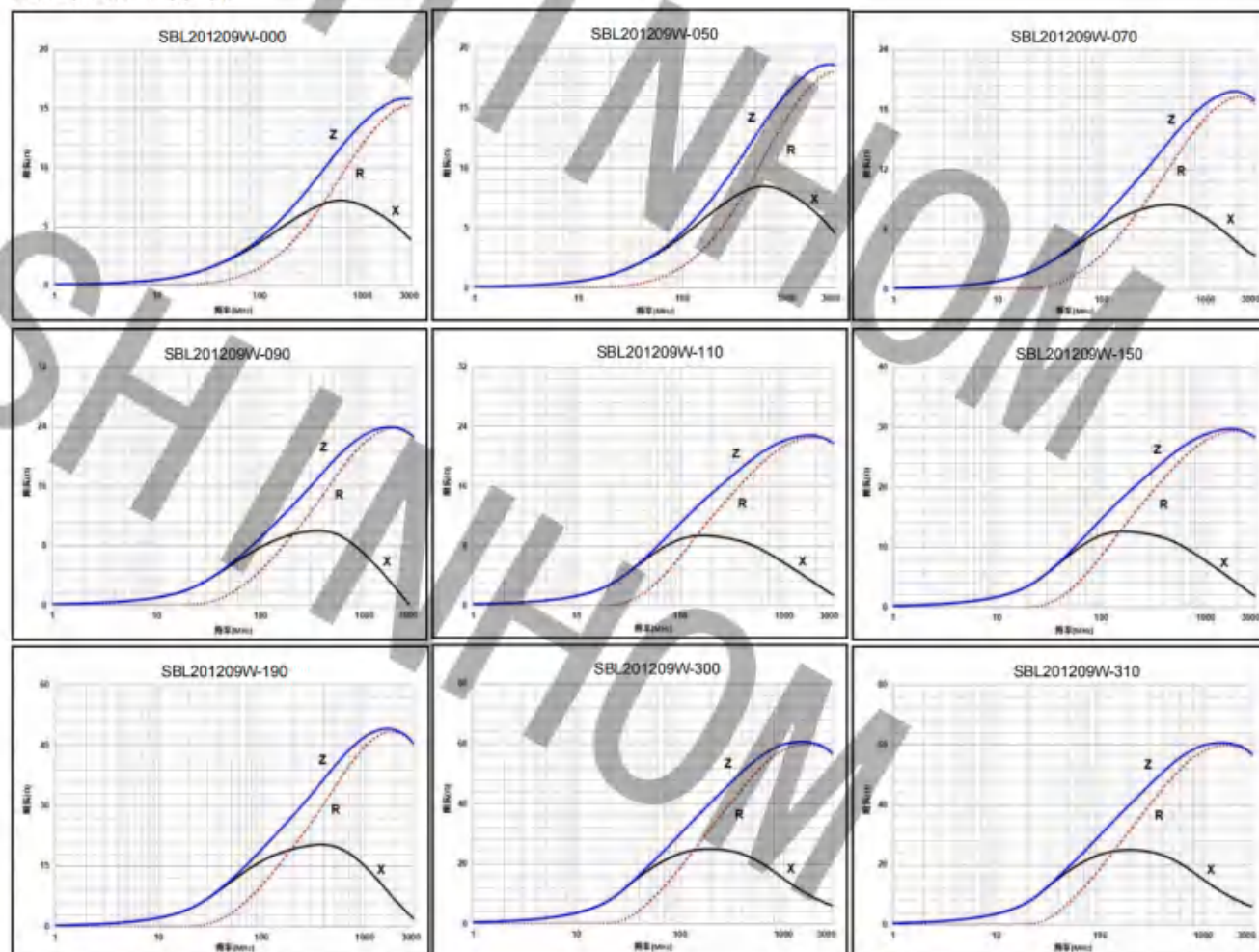


Impedance Frequency Characteristics 阻抗频率性能

SBL160808W Series

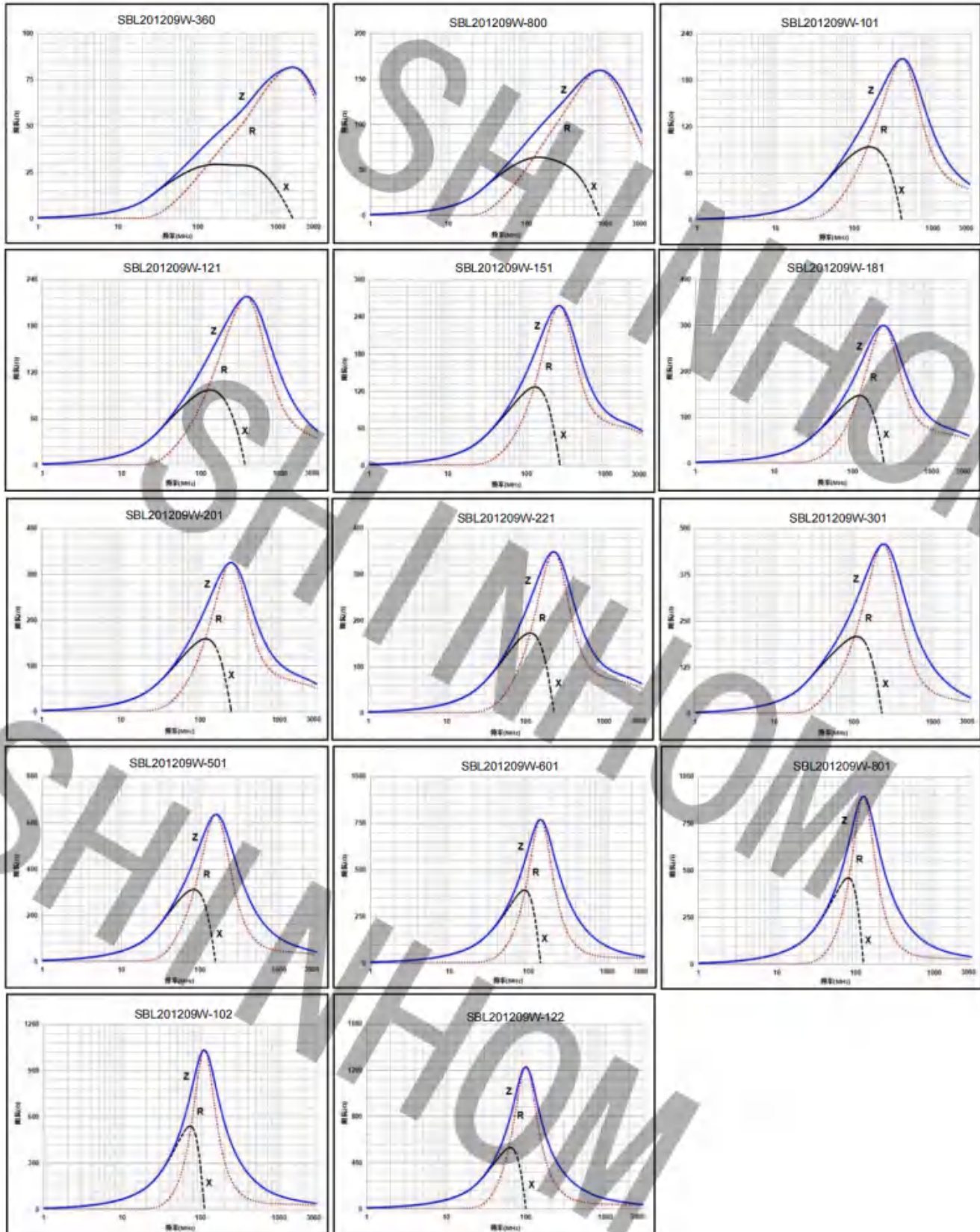


SBL201209W Series



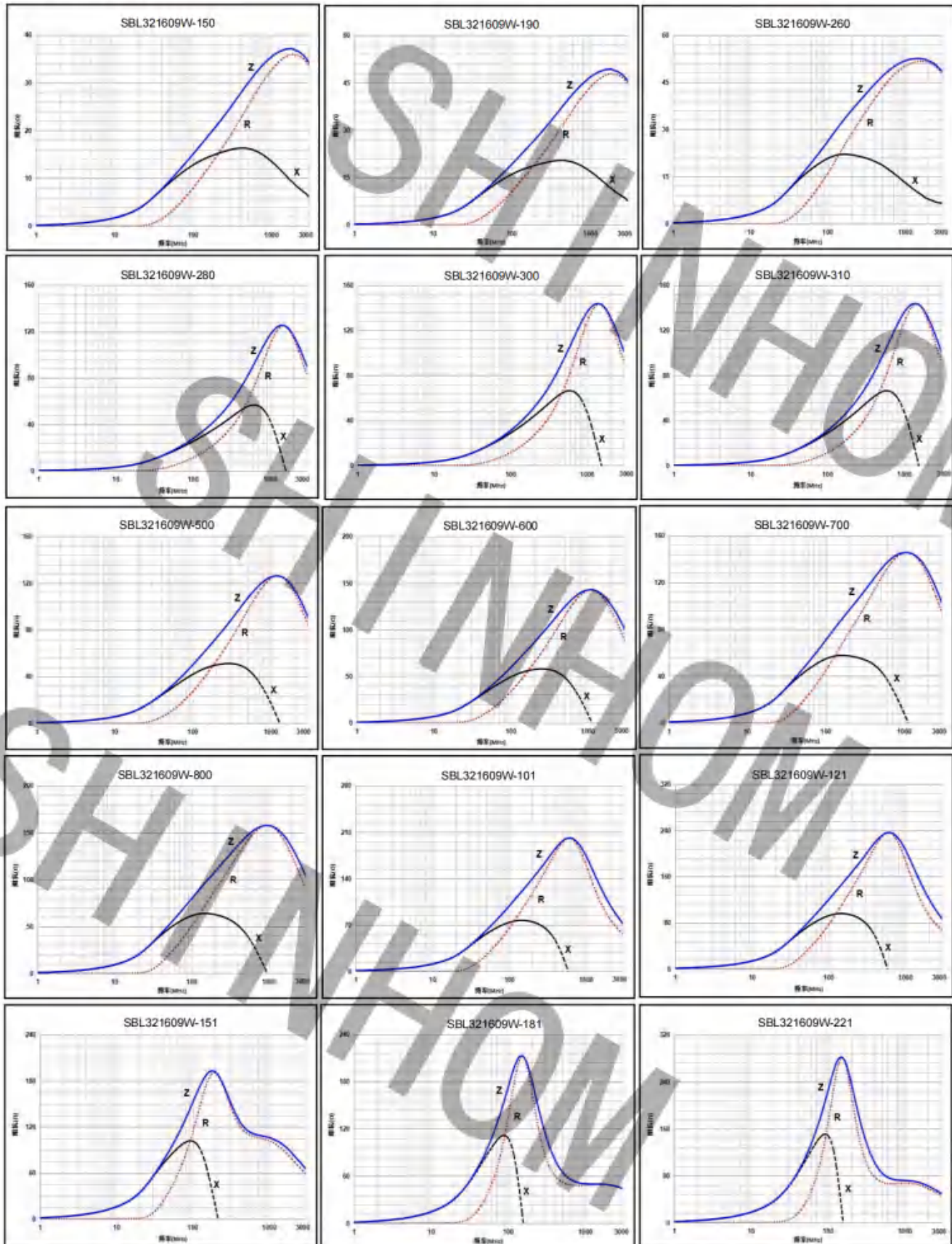
Impedance Frequency Characteristics 阻抗频率性能

SBL201209W Series



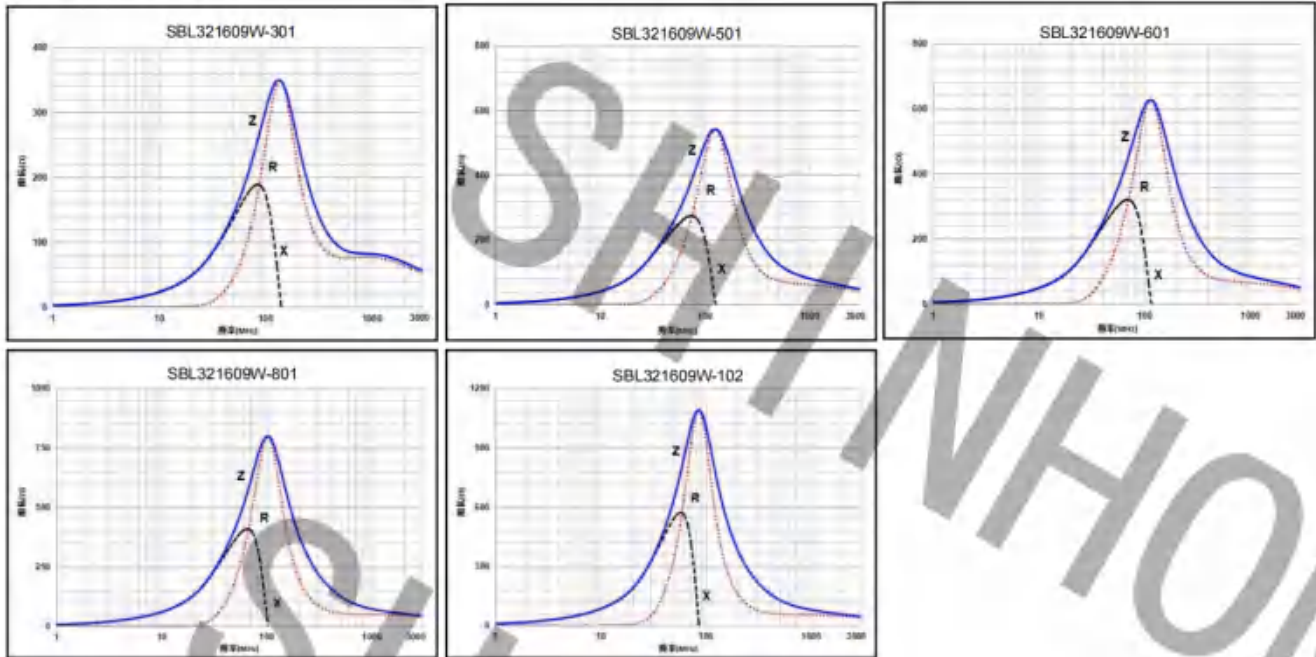
Impedance Frequency Characteristics 阻抗频率性能

SBL321609W Series

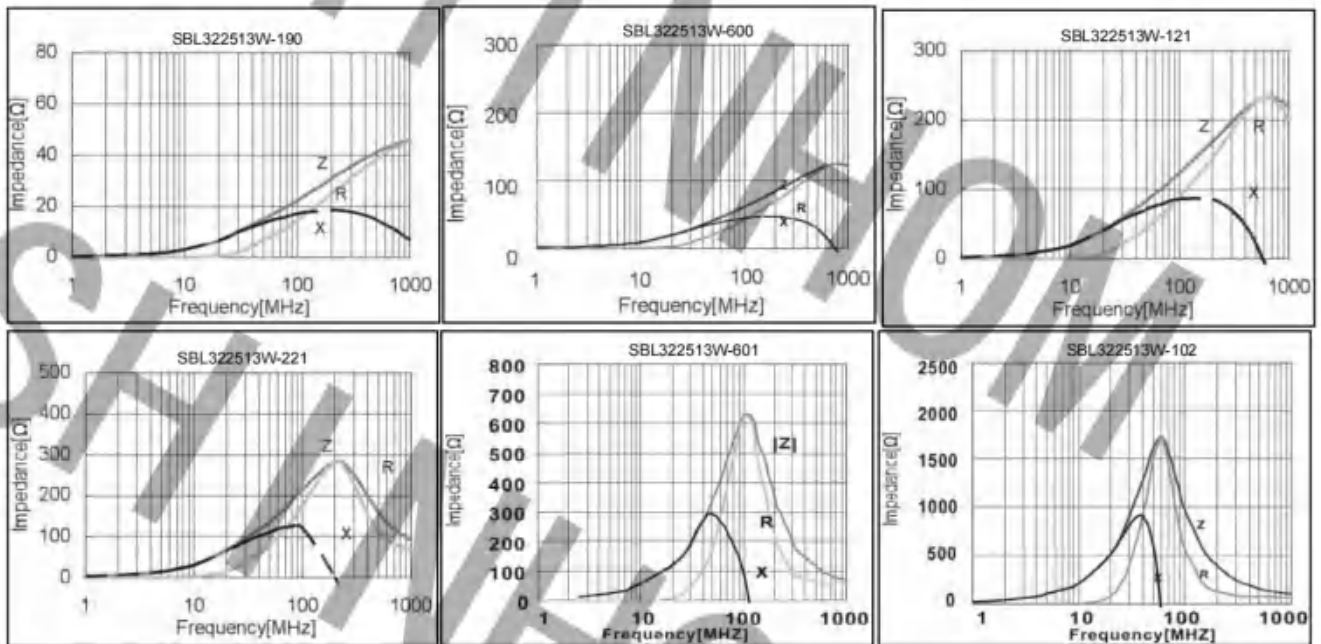


Impedance Frequency Characteristics 阻抗频率性能

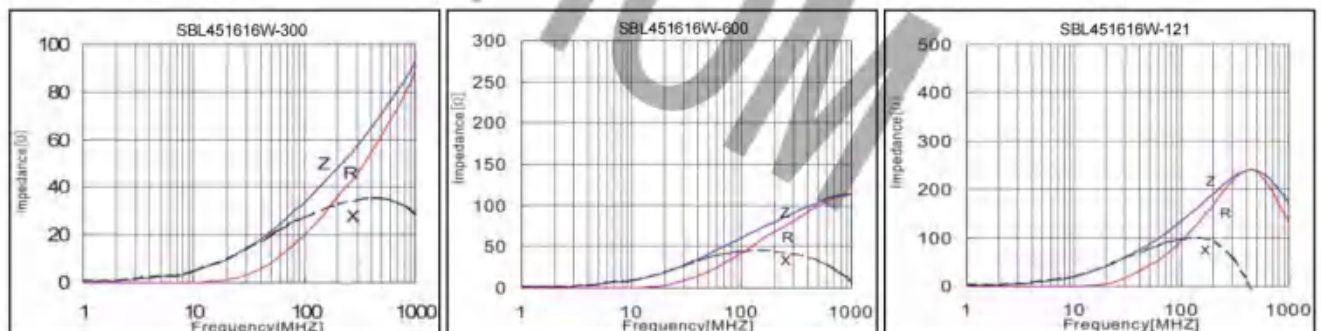
SBL321609W Series



SBL322513W Series

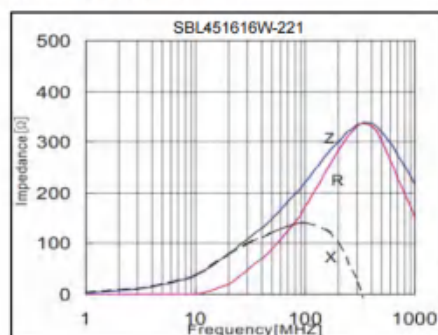


SBL451616W Series

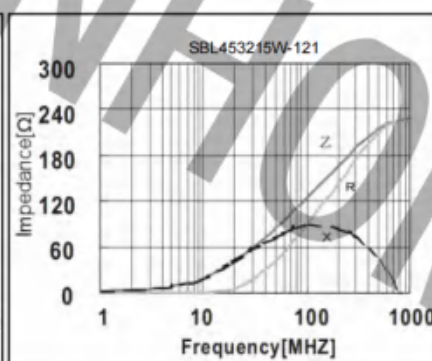
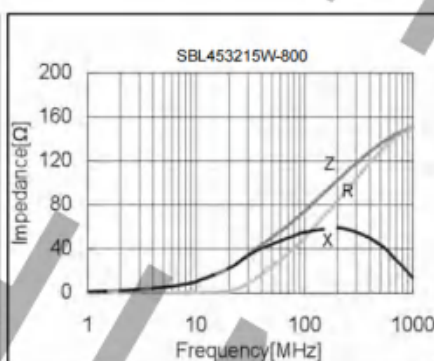
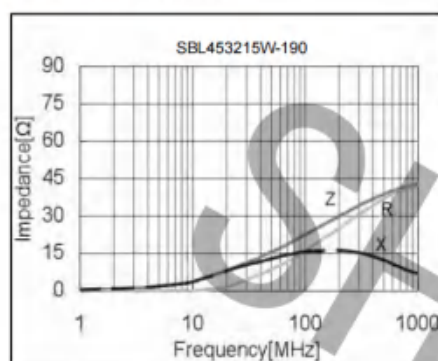


Impedance Frequency Characteristics 阻抗频率性能

SBL451616W Series



SBL453215W Series



Multilayer Chip Sharp Bead SBLxxxxxxY Series

Features 特点

- Multilayer monolithic construction yields high reliability
独石结构、高可靠性
- Has sharp impedance characteristics at desirable frequency
在指定的频段具有高阻抗
- Substantial EMI suppression over a wide frequency range
在宽频段有显著的抑制噪声效果
- Does not affect the signal frequency
对信号频段无影响



Applications 应用

- Computers and peripherals 电脑及外设
- Digital cameras, TV set 数字电视, 数码相机
- Communication equipment 通讯设备

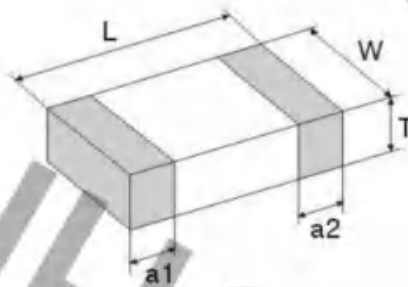
Product Identification 产品标识

SBL 201209 Y 121

① ② ③ ④

- ① Series name 系列名称
- ② Dimension 产品尺寸L×W×T: 【201209: 2.0mm×1.2 mm×0.9mm】
- ③ Material code 材料代码
- ④ Impedance 阻抗: 【100=10Ω 121=120Ω 102=1000Ω】

Shapes And Dimensions 外形及尺寸示意图



Type	Dimensions (mm) [inch]			
	L	W	T	a1, a2
100505 [0402]	1.00±0.15 [0.04±0.006]	0.50±0.15 [0.02±0.006]	0.50±0.15 [0.02±0.006]	0.25±0.10 [0.01±0.004]
160808 [0603]	1.60±0.20 [0.063±0.008]	0.80±0.20 [0.031±0.008]	0.80±0.20 [0.031±0.008]	0.30±0.20 [0.012±0.008]
201209 [0805]	2.00±0.20 [0.079±0.008]	1.20±0.20 [0.049±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]
321609 [1206]	3.20±0.20 [0.126±0.008]	1.60±0.20 [0.063±0.008]	0.90±0.20 [0.035±0.008]	0.50±0.30 [0.02±0.012]

Electrical Characteristics 电气性能

SBL100505Y Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL100505Y-000	0~15	100	0.10	300
SBL100505Y-050	0~15	100	0.10	300
SBL100505Y-070	0~11	100	0.10	300
SBL100505Y-090	5~13	100	0.10	300
SBL100505Y-110	7~15	100	0.10	300
SBL100505Y-150	9~21	100	0.10	300
SBL100505Y-190	12~25	100	0.10	300
SBL100505Y-310	31 $\pm$ 25%	100	0.20	300
SBL100505Y-600	60 $\pm$ 25%	100	0.35	200
SBL100505Y-800	80 $\pm$ 25%	100	0.40	200
SBL100505Y-121	120 $\pm$ 25%	100	0.50	150
SBL100505Y-151	150 $\pm$ 25%	100	0.55	150
SBL100505Y-181	180 $\pm$ 25%	100	0.60	150
SBL100505Y-221	220 $\pm$ 25%	100	0.70	150
SBL100505Y-301	300 $\pm$ 25%	100	0.80	100
SBL100505Y-501	500 $\pm$ 25%	100	1.10	100
SBL100505Y-601	600 $\pm$ 25%	100	1.30	100

SBL160808Y Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL160808Y-000	0~15	100	0.10	600
SBL160808Y-050	0~15	100	0.10	600
SBL160808Y-070	0~11	100	0.10	600
SBL160808Y-090	5~13	100	0.10	500
SBL160808Y-110	7~15	100	0.20	500
SBL160808Y-150	9~21	100	0.20	500
SBL160808Y-190	12~25	100	0.20	500
SBL160808Y-310	31 $\pm$ 25%	100	0.25	400
SBL160808Y-600	60 $\pm$ 25%	100	0.30	300
SBL160808Y-800	80 $\pm$ 25%	100	0.30	300

Electrical Characteristics 电气性能

SBL160808Y Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL160808Y- 121	120 $\pm$ 25%	100	0.35	200
SBL160808Y- 151	150 $\pm$ 25%	100	0.35	200
SBL160808Y- 221	220 $\pm$ 25%	100	0.40	200
SBL160808Y- 301	300 $\pm$ 25%	100	0.50	200
SBL160808Y- 501	500 $\pm$ 25%	100	0.60	200
SBL160808Y- 601	600 $\pm$ 25%	100	0.70	200

SBL201209Y Series

Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	I _r (mA) Max.
SBL201209Y- 000	0~15	100	0.15	600
SBL201209Y- 050	0~15	100	0.15	600
SBL201209Y- 070	0~11	100	0.15	600
SBL201209Y- 090	5~13	100	0.15	600
SBL201209Y- 110	7~15	100	0.15	600
SBL201209Y- 150	9~21	100	0.15	600
SBL201209Y- 190	12~25	100	0.15	600
SBL201209Y- 260	26 $\pm$ 25%	100	0.20	600
SBL201209Y- 310	31 $\pm$ 25%	100	0.20	600
SBL201209Y- 700	70 $\pm$ 25%	100	0.25	600
SBL201209Y- 800	80 $\pm$ 25%	100	0.25	600
SBL201209Y- 121	120 $\pm$ 25%	100	0.25	600
SBL201209Y- 151	150 $\pm$ 25%	100	0.25	600
SBL201209Y- 221	220 $\pm$ 25%	100	0.30	600
SBL201209Y- 301	300 $\pm$ 25%	100	0.30	600
SBL201209Y- 501	500 $\pm$ 25%	100	0.35	400
SBL201209Y- 601	600 $\pm$ 25%	100	0.40	400

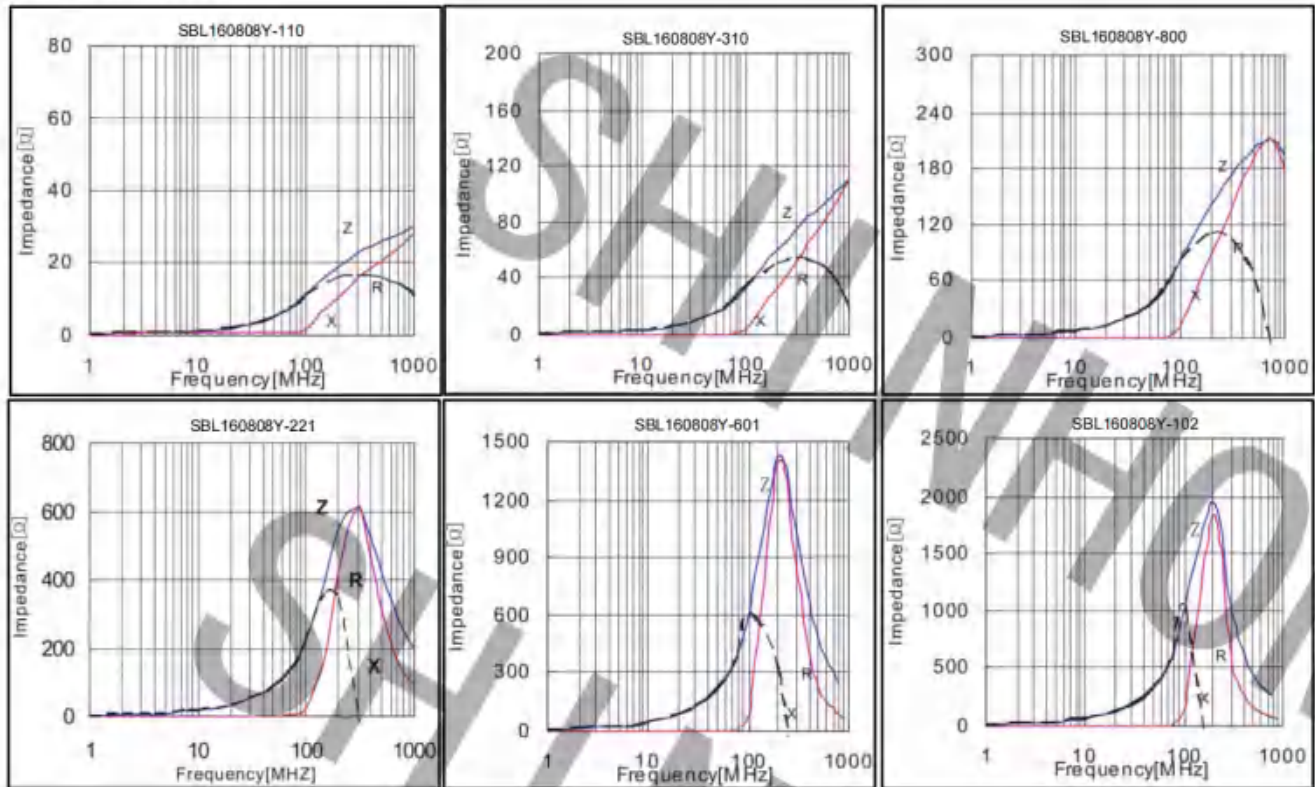
Electrical Characteristics 电气性能

SBL321609Y Series

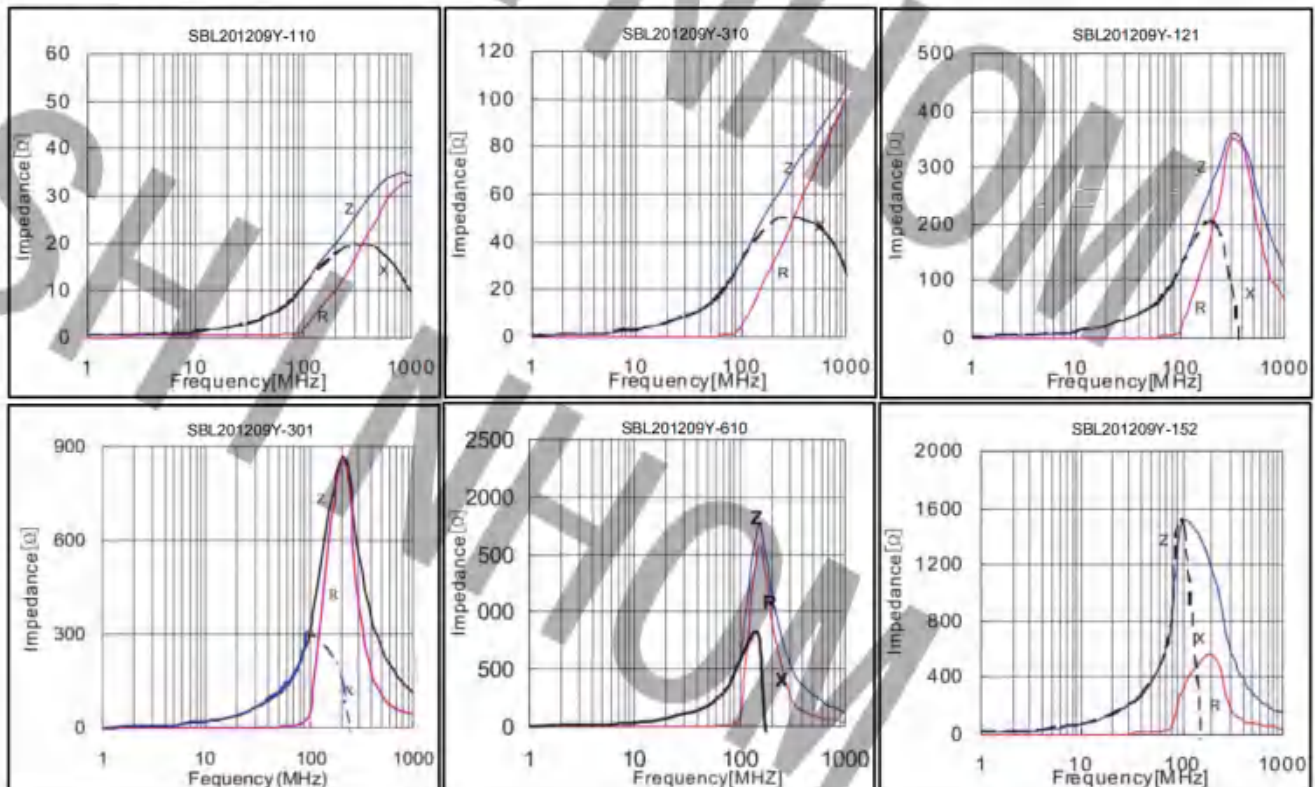
Part Number	Impedance (Ω)	Z Test Freq. (MHz)	RDC(Ω) Max.	Ir(mA) Max.
SBL321609Y- 000	0~15	100	0.10	500
SBL321609Y- 050	0~15	100	0.10	500
SBL321609Y- 070	0~11	100	0.10	500
SBL321609Y- 090	5~13	100	0.10	500
SBL321609Y- 110	7~15	100	0.10	500
SBL321609Y- 150	9~21	100	0.10	500
SBL321609Y- 190	12~25	100	0.10	500
SBL321609Y- 260	26 $\pm$ 25%	100	0.10	500
SBL321609Y- 310	31 $\pm$ 25%	100	0.10	500
SBL321609Y- 600	60 $\pm$ 25%	100	0.20	400
SBL321609Y- 700	70 $\pm$ 25%	100	0.20	400
SBL321609Y- 800	80 $\pm$ 25%	100	0.20	400
SBL321609Y- 900	90 $\pm$ 25%	100	0.20	400
SBL321609Y- 121	120 $\pm$ 25%	100	0.20	400
SBL321609Y- 151	150 $\pm$ 25%	100	0.20	400
SBL321609Y- 221	220 $\pm$ 25%	100	0.20	400
SBL321609Y- 301	300 $\pm$ 25%	100	0.25	400
SBL321609Y- 501	500 $\pm$ 25%	100	0.30	300
SBL321609Y- 601	600 $\pm$ 25%	100	0.30	300

Impedance Frequency Characteristics 阻抗频率性能

SBL160808Y Series

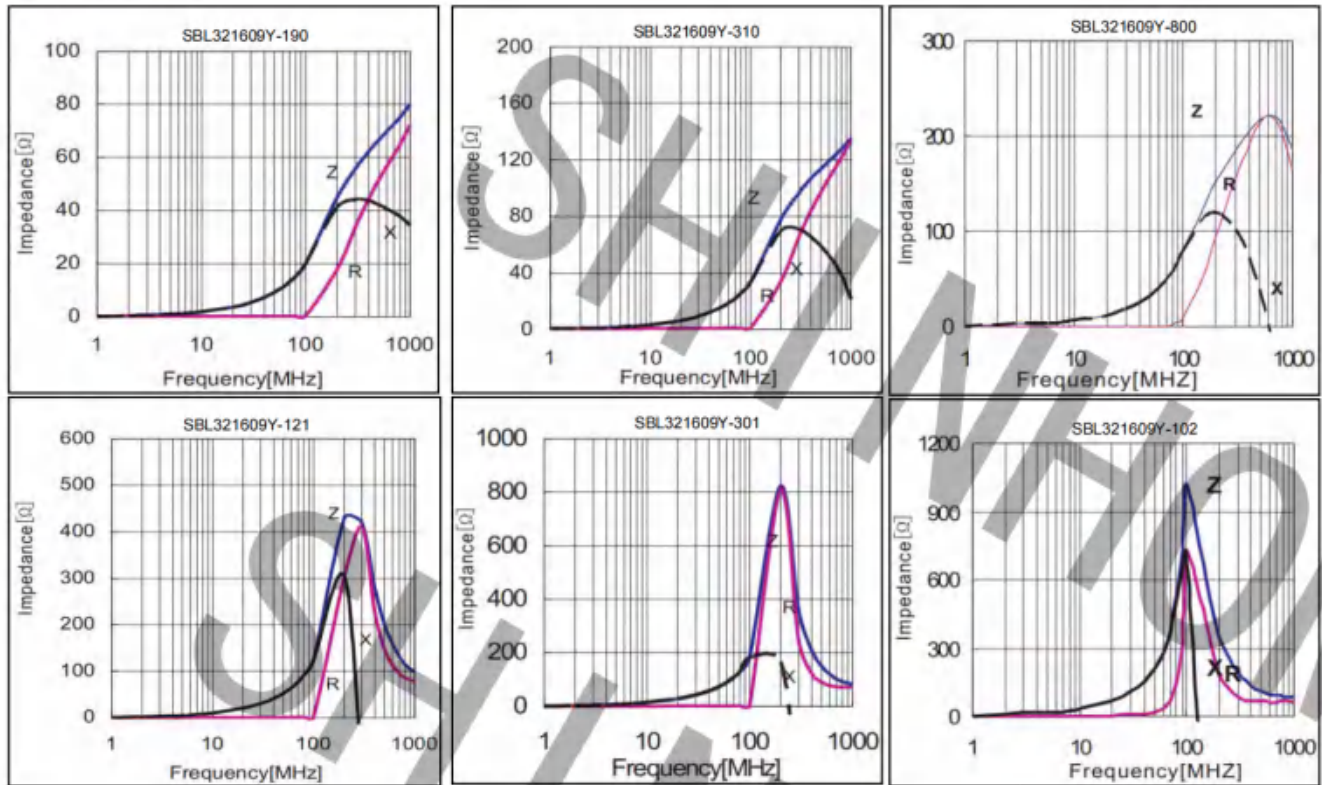


SBL201209Y Series



Impedance Frequency Characteristics 阻抗频率性能

SBL321609Y Series



Multilayer Chip Ferrite Ultra-High Current Beads

Feature

A unique terminal electrode structure ensures permissible current 6.0A(max).

High impedance and EMI suppression effective over a wide frequency range.

Suitable reflow and wave soldering.



Application

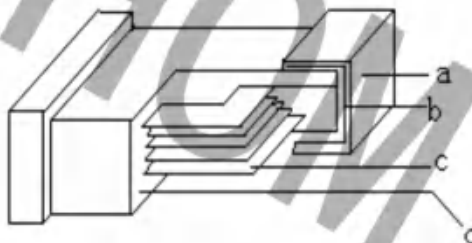
Noise suppression in power lines or extra-large current signal lines of electrical equipment such as communication equipment, computers and LCD TVs.

Part Number

①		②		③	④		⑤
SBL		201209		U	121		T
Product Code		Dimensions (mm) (L×W×T)		Material Code	Impedance (Ω)		Packaging Style
SBL	Multilayer Chip Ferrite Ultra-High Current Beads	060303	0.6×0.3×0.3	U	Example	11	T
		100505	1.0×0.5×0.5	X			Tape&Reel
		160808	1.6×0.8×0.8				
		201209	2.0×1.2×0.9				
		321609	3.2×1.6×0.9		110	11	
		322513	3.2×2.5×1.3		121	120	
		451616	4.5×1.6×1.6		102	1000	B
		453215	4.5×3.2×1.5				Bulk

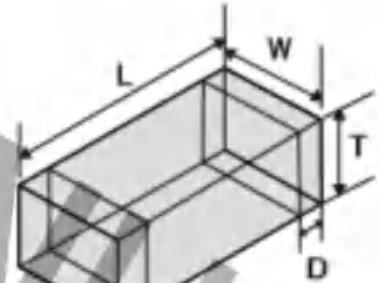
Product Structure

- a. Ni/Sn plating
- b. Ag layer
- c. Inner electrode
- d. Body



Dimension

Part No	L(mm)	W(mm)	T(mm)	D(mm)
060303 (0201)	0.6±0.03 (0.020±0.003)	0.3±0.03 (0.010±0.003)	0.3±0.03 (0.010±0.003)	0.15±0.05 (0.010±0.002)
100505 (0402)	1.0±0.15 (0.040±0.006)	0.5±0.15 (0.020±0.006)	0.5±0.15 (0.020±0.006)	0.25±0.1 (0.010±0.004)
160808 (0603)	1.6±0.20 (0.063±0.008)	0.8±0.20 (0.031±0.008)	0.8±0.20 (0.031±0.008)	0.3±0.2 (0.01±0.008)
201209 (0805)	2.0±0.20 (0.079±0.008)	1.2±0.20 (0.047±0.008)	0.9±0.20 (0.035±0.008)	0.5±0.3 (0.020±0.012)
321609 (1206)	3.2±0.20 (0.126±0.008)	1.6±0.20 (0.063±0.008)	0.9±0.20 (0.035±0.008)	0.5±0.3 (0.020±0.012)
322513 (1210)	3.2±0.20 (0.126±0.008)	2.5±0.20 (0.098±0.008)	1.3±0.20 (0.051±0.008)	0.5±0.3 (0.020±0.012)
451616 (1806)	4.5±0.20 (0.186±0.008)	1.6±0.20 (0.063±0.008)	1.6±0.20 (0.063±0.008)	0.5±0.3 (0.020±0.012)
453215 (1812)	4.5±0.20 (0.186±0.008)	3.2±0.20 (0.126±0.008)	1.5±0.20 (0.060±0.008)	0.5±0.3 (0.020±0.012)



Electrical Characteristics

Impedance testing conditions: E4982A or equivalent, test voltage 50mV ± 5mV, Temperature 15°C~35°C, Humidity 25%~75%.

RDC Testing conditions: RM3542A or equivalent, Temperature 15°C~35°C, Humidity 25%~75%.

Rated current: Apply the rated current, and the surface temperature rise of the product shall not exceed 40°C.

0603 Type

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL060303X-220T	± 25%	22	100	0.040	1800
SBL060303X-330T	± 25%	33	100	0.055	1500
SBL060303X-800T	± 25%	80	100	0.130	1000
SBL060303X-121T	± 25%	120	100	0.160	900

1005 Type

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL100505U-000T	0~15Ω	0	100	0.02	2000
SBL100505U-050T	0~15Ω	5	100	0.02	2000
SBL100505U-070T	0~11Ω	7	100	0.02	2000

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	I _r (mA)Max
SBL100505U-090T	5~13 Ω	9	100	0.02	2000
SBL100505U-100T	7~15 Ω	10	100	0.02	2000
SBL100505U-110T	7~15 Ω	11	100	0.02	2000
SBL100505U-150T	9~21 Ω	15	100	0.02	2000
SBL100505U-190T	12~25 Ω	19	100	0.035	1800
SBL100505U-260T	$\pm 25\%$	26	100	0.06	1800
SBL100505U-300T	$\pm 25\%$	30	100	0.06	1500
SBL100505U-600T	$\pm 25\%$	60	100	0.10	1300
SBL100505U-750T	$\pm 25\%$	75	100	0.15	1000
SBL100505U-101T	$\pm 25\%$	100	100	0.15	1000
SBL100505U-121T	$\pm 25\%$	120	100	0.15	1000
SBL100505U-151T	$\pm 25\%$	150	100	0.20	700
SBL100505U-181T	$\pm 25\%$	180	100	0.25	700
SBL100505U-201T	$\pm 25\%$	200	100	0.25	700
SBL100505U-221T	$\pm 25\%$	220	100	0.28	700
SBL100505U-301T	$\pm 25\%$	300	100	0.30	600
SBL100505U-331T	$\pm 25\%$	330	100	0.40	500
SBL100505U-471T	$\pm 25\%$	470	100	0.40	500
SBL100505U-501T	$\pm 25\%$	500	100	0.40	500
SBL100505U-601T	$\pm 25\%$	600	100	0.50	500
SBL100505U-801T	$\pm 25\%$	800	100	0.65	300
SBL100505U-102T	$\pm 25\%$	1000	100	0.65	300

1608 Type

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	I _r (mA)Max
SBL160808U-000T	0~15 Ω	0	100	0.01	6000
SBL160808U-050T	0~15 Ω	5	100	0.01	6000
SBL160808U-070T	0~11 Ω	7	100	0.01	6000
SBL160808U-090T	5~13 Ω	9	100	0.01	6000
SBL160808U-100T	7~15 Ω	10	100	0.01	6000
SBL160808U-110T	7~15 Ω	11	100	0.01	6000
SBL160808U-150T	9~21 Ω	15	100	0.01	6000
SBL160808U-190T	12~25 Ω	19	100	0.01	6000
SBL160808U-220T	$\pm 25\%$	22	100	0.03	6000
SBL160808U-260T	$\pm 25\%$	26	100	0.03	5000
SBL160808U-280T	$\pm 25\%$	28	100	0.03	4000
SBL160808U-300T	$\pm 25\%$	30	100	0.03	4000
SBL160808U-310T	$\pm 25\%$	31	100	0.03	4000
SBL160808U-330T	$\pm 25\%$	33	100	0.03	4000
SBL160808U-400T	$\pm 25\%$	40	100	0.03	3500

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL160808U-500T	$\pm 25\%$	50	100	0.04	3000
SBL160808U-600T	$\pm 25\%$	60	100	0.04	3000
SBL160808U-700T	$\pm 25\%$	70	100	0.06	2500
SBL160808U-750T	$\pm 25\%$	75	100	0.06	2500
SBL160808U-800T	$\pm 25\%$	80	100	0.06	2500
SBL160808U-101T	$\pm 25\%$	100	100	0.06	2500
SBL160808U-121T	$\pm 25\%$	120	100	0.065	2000
SBL160808U-151T	$\pm 25\%$	150	100	0.07	1500
SBL160808U-181T	$\pm 25\%$	180	100	0.09	1500
SBL160808U-201T	$\pm 25\%$	200	100	0.10	1500
SBL160808U-221T	$\pm 25\%$	220	100	0.12	1500
SBL160808U-301T	$\pm 25\%$	300	100	0.15	1500
SBL160808U-331T	$\pm 25\%$	330	100	0.18	1300
SBL160808U-471T	$\pm 25\%$	470	100	0.18	1300
SBL160808U-501T	$\pm 25\%$	500	100	0.18	1300
SBL160808U-601T	$\pm 25\%$	600	100	0.18	1300
SBL160808U-801T	$\pm 25\%$	800	100	0.30	800
SBL160808U-102T	$\pm 25\%$	1000	100	0.35	700

2012 Type

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL201209U-000T	0~15 Ω	0	100	0.01	6000
SBL201209U-050T	0~15 Ω	5	100	0.01	6000
SBL201209U-070T	0~11 Ω	7	100	0.01	6000
SBL201209U-090T	5~13 Ω	9	100	0.01	6000
SBL201209U-100T	7~15 Ω	10	100	0.01	6000
SBL201209U-110T	7~15 Ω	11	100	0.01	6000
SBL201209U-190T	12~25 Ω	19	100	0.01	6000
SBL201209U-220T	$\pm 25\%$	22	100	0.01	6000
SBL201209U-260T	$\pm 25\%$	26	100	0.01	6000
SBL201209U-280T	$\pm 25\%$	28	100	0.01	6000
SBL201209U-300T	$\pm 25\%$	30	100	0.01	6000
SBL201209U-310T	$\pm 25\%$	31	100	0.01	6000
SBL201209U-330T	$\pm 25\%$	33	100	0.01	6000
SBL201209U-360T	$\pm 25\%$	36	100	0.01	6000
SBL201209U-380T	$\pm 25\%$	38	100	0.01	6000
SBL201209U-400T	$\pm 25\%$	40	100	0.03	4000
SBL201209U-500T	$\pm 25\%$	50	100	0.03	4000
SBL201209U-600T	$\pm 25\%$	60	100	0.03	4000
SBL201209U-700T	$\pm 25\%$	70	100	0.04	4000

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL201209U-800T	$\pm 25\%$	80	100	0.04	4000
SBL201209U-900T	$\pm 25\%$	90	100	0.045	4000
SBL201209U-101T	$\pm 25\%$	100	100	0.045	4000
SBL201209U-121T	$\pm 25\%$	120	100	0.045	4000
SBL201209U-151T	$\pm 25\%$	150	100	0.07	3000
SBL201209U-181T	$\pm 25\%$	180	100	0.07	3000
SBL201209U-221T	$\pm 25\%$	220	100	0.07	3000
SBL201209U-301T	$\pm 25\%$	300	100	0.08	2500
SBL201209U-331T	$\pm 25\%$	330	100	0.09	2500
SBL201209U-391T	$\pm 25\%$	390	100	0.09	2500
SBL201209U-501T	$\pm 25\%$	500	100	0.09	2500
SBL201209U-601T	$\pm 25\%$	600	100	0.10	2000
SBL201209U-801T	$\pm 25\%$	800	100	0.12	1500
SBL201209U-102T	$\pm 25\%$	1000	100	0.12	1500
SBL201209U-122T	$\pm 25\%$	1200	100	0.2	800
SBL201209U-152T	$\pm 25\%$	1500	100	0.3	800

3216 Type

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL321609U-000T	0~15 Ω	0	100	0.01	6000
SBL321609U-050T	0~15 Ω	5	100	0.01	6000
SBL321609U-070T	0~11 Ω	7	100	0.01	6000
SBL321609U-090T	5~13 Ω	9	100	0.01	6000
SBL321609U-100T	7~15 Ω	10	100	0.01	6000
SBL321609U-110T	7~15 Ω	11	100	0.01	6000
SBL321609U-150T	9~21 Ω	15	100	0.015	6000
SBL321609U-190T	12~25 Ω	19	100	0.015	6000
SBL321609U-220T	$\pm 25\%$	22	100	0.015	6000
SBL321609U-260T	$\pm 25\%$	26	100	0.015	6000
SBL321609U-280T	$\pm 25\%$	28	100	0.015	6000
SBL321609U-300T	$\pm 25\%$	30	100	0.015	6000
SBL321609U-310T	$\pm 25\%$	31	100	0.020	5000
SBL321609U-330T	$\pm 25\%$	33	100	0.02	5000
SBL321609U-360T	$\pm 25\%$	36	100	0.02	5000
SBL321609U-380T	$\pm 25\%$	38	100	0.02	5000
SBL321609U-400T	$\pm 25\%$	40	100	0.02	5000
SBL321609U-500T	$\pm 25\%$	50	100	0.02	5000
SBL321609U-600T	$\pm 25\%$	60	100	0.025	5000
SBL321609U-700T	$\pm 25\%$	70	100	0.035	4000
SBL321609U-800T	$\pm 25\%$	80	100	0.035	4000

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL321609U-900T	$\pm 25\%$	90	100	0.035	4000
SBL321609U-101T	$\pm 25\%$	100	100	0.035	4000
SBL321609U-121T	$\pm 25\%$	120	100	0.035	4000
SBL321609U-151T	$\pm 25\%$	150	100	0.045	3000
SBL321609U-181T	$\pm 25\%$	180	100	0.055	3000
SBL321609U-221T	$\pm 25\%$	220	100	0.055	3000
SBL321609U-271T	$\pm 25\%$	270	100	0.06	3000
SBL321609U-301T	$\pm 25\%$	300	100	0.065	2500
SBL321609U-331T	$\pm 25\%$	330	100	0.080	2500
SBL321609U-391T	$\pm 25\%$	390	100	0.080	2500
SBL321609U-501T	$\pm 25\%$	500	100	0.080	2500
SBL321609U-601T	$\pm 25\%$	600	100	0.085	2200
SBL321609U-801T	$\pm 25\%$	800	100	0.11	2100
SBL321609U-102T	$\pm 25\%$	1000	100	0.12	2100

3225 Type

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL322513U-000T	0~15 Ω	0	100	0.02	6000
SBL322513U-100T	7~15 Ω	10	100	0.02	6000
SBL322513U-110T	7~15 Ω	11	100	0.02	6000
SBL322513U-150T	9~21 Ω	15	100	0.02	6000
SBL322513U-190T	12~25 Ω	19	100	0.02	6000
SBL322513U-220T	$\pm 25\%$	22	100	0.02	6000
SBL322513U-260T	$\pm 25\%$	26	100	0.02	6000
SBL322513U-280T	$\pm 25\%$	28	100	0.02	6000
SBL322513U-300T	$\pm 25\%$	30	100	0.02	6000
SBL322513U-310T	$\pm 25\%$	31	100	0.02	6000
SBL322513U-330T	$\pm 25\%$	33	100	0.02	6000
SBL322513U-360T	$\pm 25\%$	36	100	0.02	6000
SBL322513U-380T	$\pm 25\%$	38	100	0.02	6000
SBL322513U-400T	$\pm 25\%$	40	100	0.02	6000
SBL322513U-500T	$\pm 25\%$	50	100	0.02	6000
SBL322513U-600T	$\pm 25\%$	60	100	0.02	6000
SBL322513U-700T	$\pm 25\%$	70	100	0.02	6000
SBL322513U-800T	$\pm 25\%$	80	100	0.02	6000
SBL322513U-900T	$\pm 25\%$	90	100	0.03	5000
SBL322513U-101T	$\pm 25\%$	100	100	0.03	5000
SBL322513U-121T	$\pm 25\%$	120	100	0.03	5000
SBL322513U-151T	$\pm 25\%$	150	100	0.03	5000
SBL322513U-181T	$\pm 25\%$	180	100	0.06	4000

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL322513U-221T	$\pm 25\%$	220	100	0.06	4000
SBL322513U-301T	$\pm 25\%$	300	100	0.06	4000
SBL322513U-331T	$\pm 25\%$	330	100	0.10	4000
SBL322513U-391T	$\pm 25\%$	390	100	0.10	4000
SBL322513U-501T	$\pm 25\%$	500	100	0.10	4000
SBL322513U-601T	$\pm 25\%$	600	100	0.15	3000
SBL322513U-801T	$\pm 25\%$	800	100	0.20	2500
SBL322513U-102T	$\pm 25\%$	1000	100	0.23	2500

4516 Type

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL451616U-000T	0~15 Ω	0	100	0.009	6000
SBL451616U-190T	12~25 Ω	19	100	0.009	6000
SBL451616U-220T	$\pm 25\%$	22	100	0.009	6000
SBL451616U-260T	$\pm 25\%$	26	100	0.009	6000
SBL451616U-280T	$\pm 25\%$	28	100	0.009	6000
SBL451616U-300T	$\pm 25\%$	30	100	0.009	6000
SBL451616U-310T	$\pm 25\%$	31	100	0.009	6000
SBL451616U-330T	$\pm 25\%$	33	100	0.009	6000
SBL451616U-360T	$\pm 25\%$	36	100	0.009	6000
SBL451616U-380T	$\pm 25\%$	38	100	0.009	6000
SBL451616U-400T	$\pm 25\%$	40	100	0.009	6000
SBL451616U-500T	$\pm 25\%$	50	100	0.009	6000
SBL451616U-600T	$\pm 25\%$	60	100	0.009	6000
SBL451616U-750T	$\pm 25\%$	75	100	0.02	6000
SBL451616U-800T	$\pm 25\%$	80	100	0.025	3500

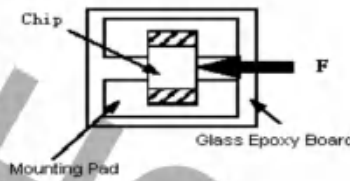
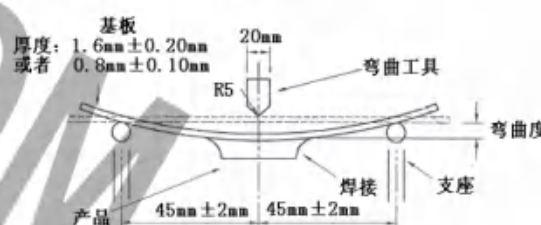
4532 Type

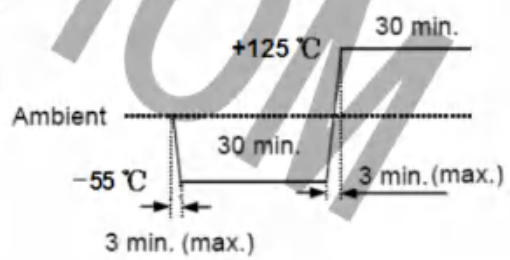
Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL453215U-000T	0~15 Ω	0	100	0.01	6000
SBL453215U-190T	12~25 Ω	19	100	0.01	6000
SBL453215U-220T	$\pm 25\%$	22	100	0.01	6000
SBL453215U-260T	$\pm 25\%$	26	100	0.01	6000
SBL453215U-280T	$\pm 25\%$	28	100	0.01	6000
SBL453215U-300T	$\pm 25\%$	30	100	0.01	6000
SBL453215U-310T	$\pm 25\%$	31	100	0.01	6000
SBL453215U-330T	$\pm 25\%$	33	100	0.01	6000
SBL453215U-360T	$\pm 25\%$	36	100	0.01	6000
SBL453215U-380T	$\pm 25\%$	38	100	0.01	6000

Part NO	Tolerance	Impedance(Ω)	Test frequency(MHz)	DCR (Ω)Max	Ir (mA)Max
SBL453215U-400T	$\pm 25\%$	40	100	0.01	6000
SBL453215U-500T	$\pm 25\%$	50	100	0.01	6000
SBL453215U-600T	$\pm 25\%$	60	100	0.01	6000
SBL453215U-700T	$\pm 25\%$	70	100	0.01	6000
SBL453215U-800T	$\pm 25\%$	80	100	0.02	6000
SBL453215U-900T	$\pm 25\%$	90	100	0.02	6000
SBL453215U-101T	$\pm 25\%$	100	100	0.02	6000
SBL453215U-121T	$\pm 25\%$	120	100	0.02	6000
SBL453215U-151T	$\pm 25\%$	150	100	0.02	6000
SBL453215U-181T	$\pm 25\%$	180	100	0.02	6000
SBL453215U-221T	$\pm 25\%$	220	100	0.02	6000
SBL453215U-501T	$\pm 25\%$	500	100	0.08	4000
SBL453215U-601T	$\pm 25\%$	600	100	0.08	4000

Reliability Test Method

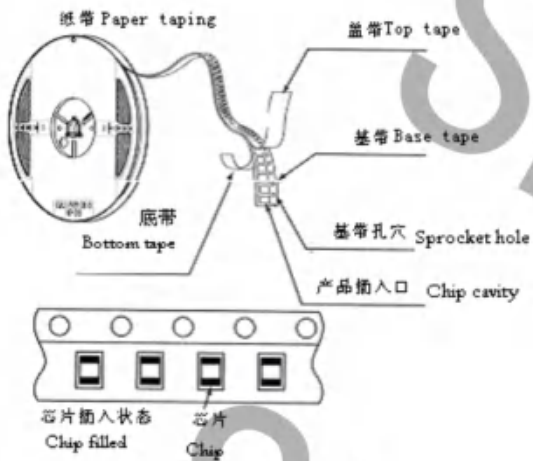
No.	Items	Requirements	Test Methods and Remarks
1	Operating Temperature Range	-55°C~+125°C	Includes product surface temperature rise
2	Solder ability	No mechanical damage. 95% (75% for 0603 series) or more of electrode area shall be coated by new solder.	Preheating temperature:120°C to 150°C Preheating time: 60s Solder 96.5%Sn/3.0%Ag/0.5%Cu of the Sn solder. Solder temperature: 245 $\pm$ 3°C Immersion tin depth:10mm Duration : 3 $\pm$ 0.3s Dip performance to a flux of about:3 ~ 5 s

No.	Items	Requirements	Test Methods and Remarks
3	Resistance to Soldering Heat	No mechanical damage. Inductance : Impedance change: within $\pm 30\%$	Preheating temperature: 120°C to 150°C Preheating time: 60s Solder 96.5%Sn/3.0%Ag/0.5%Cu of the Sn solder. Solder temperature: $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Immersion tin depth: 10mm Duration : $10 \pm 1\text{s}$ Dip performance to a flux of about: 3~5 s
4	Adhesion of electrode	The termination and body should be no damage.	Applied force: 2N force for 0603 series; 5N force for 1005 series; 7N force for 1608 series; 10N force for 2012、3216 series. 15N force for 3225、4532 series. Keep time : $10 \pm 1\text{s}$ 
5	Low temperature resistance	No mechanical damage. Impedance change: within $\pm 30\%$	Temperature: $-55 \pm 2^{\circ}\text{C}$ Testing time: 1000 ± 24 h
6	Bending strength	No mechanical damage	Testing board: glass epoxy-resin substrate For (1 ± 0.5) mm/s compression speed, curvature: 2mm, hold time $20\text{s} \pm 1\text{s}$. 

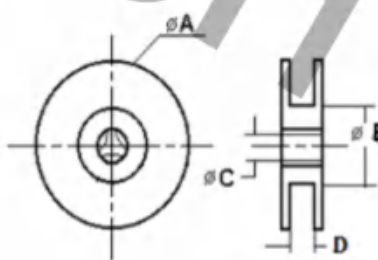
No.	Items	Requirements	Test Methods and Remarks
7	Vibration	No mechanical damage. Impedance change: within $\pm 30\%$	Amplitude modulation: 1.5mm Test time: A period of 2h in each of 3 mutually perpendicular directions. Frequency range: 10Hz to 55Hz to 10Hz for 1min.
8	High temperature resistance	No mechanical damage. Impedance change: within $\pm 30\%$	Testing time: 1000^{+24}_{-0} h Temperature: $125 \pm 2^\circ\text{C}$
9	Static Humidity	No mechanical damage. Impedance change: within $\pm 30\%$	Humidity: 90% to 95% RH Temperature: $60^\circ\text{C} \pm 2^\circ\text{C}$ Testing time: 1000^{+24}_{-0} h
10	High temperature load	No mechanical damage. Impedance change: within $\pm 30\%$	impose current: at room Testing time: 1000^{+24}_{-0} h Temperature: $85 \pm 2^\circ\text{C}$
11	Temperature Shock	No mechanical damage. Impedance change: within $\pm 30\%$	Temperature: -55°C for 30 ± 3min $+125^\circ\text{C}$ for 30 ± 3min Number of cycles: 100 
Note: When there are questions concerning, measurement shall be made after 24 ± 2hrs of recovery under the standard condition.			

Packaging

Taping drawings



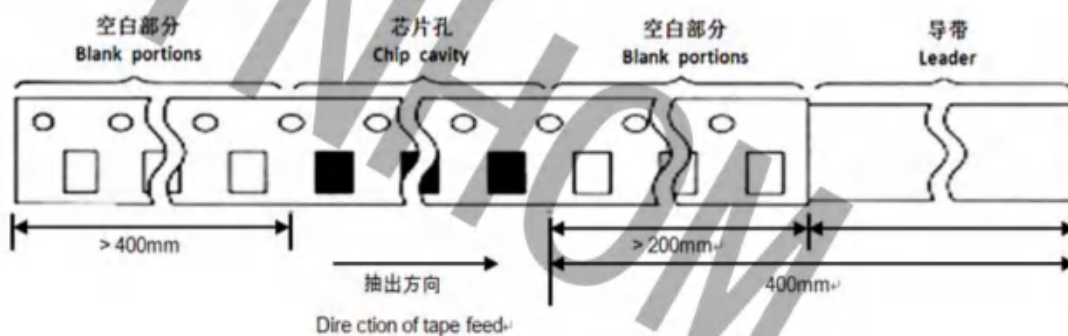
Reel dimensions (Unit: mm)



Size	A	B	C	D
7 inch	178±2.0	60±2.0	13.0±1.0	9.5±2.0
13 inch	330±2.0	100±2.0	13.5±1.0	12.4±2.0

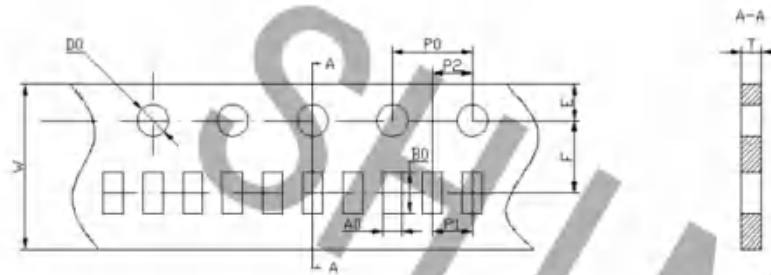
Note: 7 inch is available in 060303, 100505, 160808, 201209, 321609, 322513 sizes, 13 inch is available in 451616、453215 sizes

Leader and blank portion



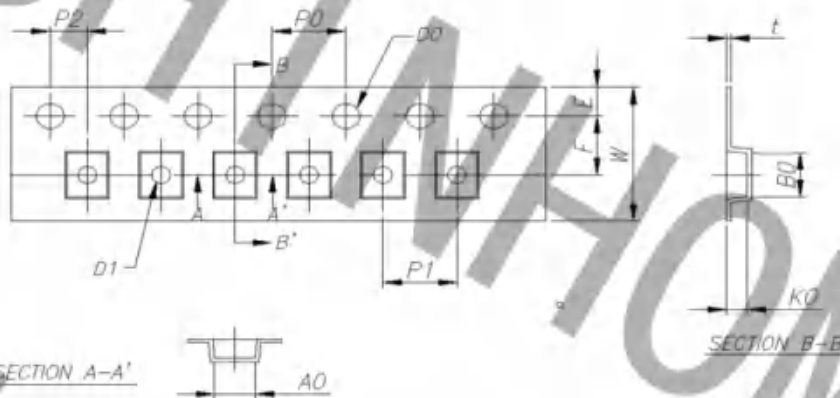
Taping dimensions (Unit: mm)

Paper tape



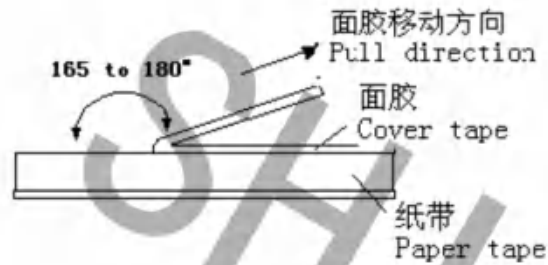
Part NO.	A0	B0	W	F	E	P1	P2	P0	D0	T
060303	0.38±0.03	0.68±0.03	8.00±0.10	3.50±0.05	1.75±0.05	2.00±0.05	2.00±0.05	4.00±0.10	1.55±0.05	0.42±0.03
100505	0.59±0.10	1.12±0.10	8.00±0.20	3.50±0.10	1.75±0.20	2.00±0.10	2.00±0.10	4.00±0.20	1.55±0.10	0.60±0.10
160808	1.05±0.20	1.85±0.20	8.00±0.20	3.50±0.10	1.75±0.20	4.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10
201209	1.45±0.20	2.35±0.20	8.00±0.20	3.50±0.10	1.75±0.20	4.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10
321609	1.90±0.20	3.46±0.20	8.00±0.20	3.50±0.10	1.75±0.20	4.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10

Embossed tape



Size	453215	451616	322513	321611	201212
W	12.00+/-0.20	12.00+/-0.20	8.00+/-0.20	8.00+/-0.20	8.00+/-0.2
E	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10
F	5.50+/-0.10	5.50+/-0.10	3.50+/-0.10	3.50+/-0.10	3.50+/-0.10
D0	1.50+/-0.10	1.50+/-0.10	1.50+/-0.10	1.50+/-0.10	1.50+/-0.10
D1	1.50+/-0.10	1.50+/-0.10	1.00+/-0.10	1.00+/-0.10	1.00+/-0.10
P0	4.00+/-0.10	4.00+/-0.10	4.00+/-0.10	4.00+/-0.10	4.00+/-0.10
P010	40.0+/-0.20	40.00+/-0.20	40.0+/-0.20	40.0+/-0.20	40.0+/-0.20
P1	8.00+/-0.10	8.00+/-0.10	4.00+/-0.10	4.00+/-0.10	4.00+/-0.10
P2	2.00+/-0.10	2.00+/-0.10	2.0+/-0.05	2.0+/-0.05	2.00+/-0.10
A0	3.66+/-0.10	1.93+/-0.10	2.77+/-0.10	1.88+/-0.10	1.52+/-0.10
B0	4.95+/-0.10	4.95+/-0.10	3.42+/-0.10	3.50+/-0.10	2.41+/-0.10
K0	1.85+/-0.10	1.93+/-0.10	1.55+/-0.10	1.27+/-0.10	1.35+/-0.10
t	0.24+/-0.10	0.24+/-0.10	0.22+/-0.10	0.22+/-0.10	0.23+/-0.10

Peeling off force



Peeling force should be 0.1~0.7N pulling in the direction of arrow.

Speed of peeling off: 300mm/min.

The cover bond should not be damaged and bond the tape when it peeled off.

Packaging number (Unit: Pcs)

Size	453215	451616	322513	321611	321609	201212	201209	160808	100505	060303
REEL	3000	5000	3000	3000	4000	3000	4000	4000	10000	15000
BOX	15000	25000	30000	30000	40000	30000	40000	40000	100000	150000
CASE	45000	75000	180000	180000	240000	180000	240000	240000	600000	900000

Recommend Soldering Conditions

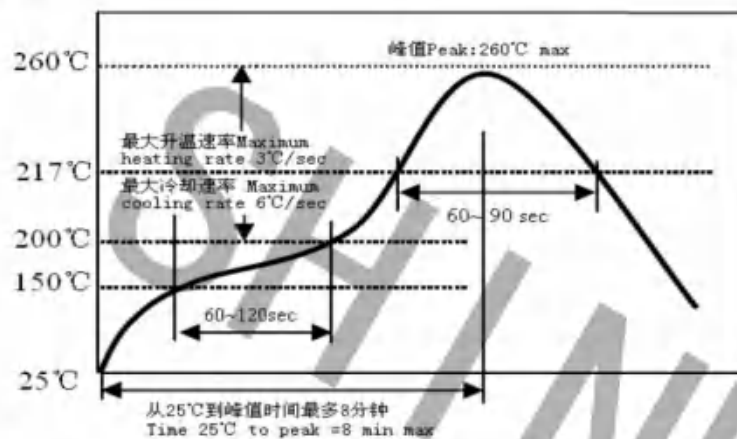
Soldering Conditions

Products can be applied to reflow soldering.

Pre-heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150°C max. Also cooling into solvent after soldering should be in such way that the temperature difference is limited to 100°C max. Un-enough pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.

Products should be soldered within the following allowable range indicated by the slanted line. The excessive soldering conditions may cause the corrosion of the electrode. When soldering is repeated, allowable time is the accumulated time.

Reflow soldering profile



- 1 Preheat condition: 150 ~200°C/60~120sec
- 2 Allowed time above 217°C: 60~90sec
- 3 max temp: 260 °C
- 4 max time at max temp: 10 sec
- 5 Solder paste: Sn/3.0Ag/0.5Cu
- 6 Allowed Reflow time: 2x max

Iron soldering

Perform soldering at 350°C on 30W max Time: < 5S

Take care not to apply the tip of the soldering iron to the terminal electrodes



Cleaning

Cleaning Conditions

Cleaning temperature : 60°C max

Cleaning time: 1 minute min.

Ultrasonic output power: 200W max

Storage Requirements

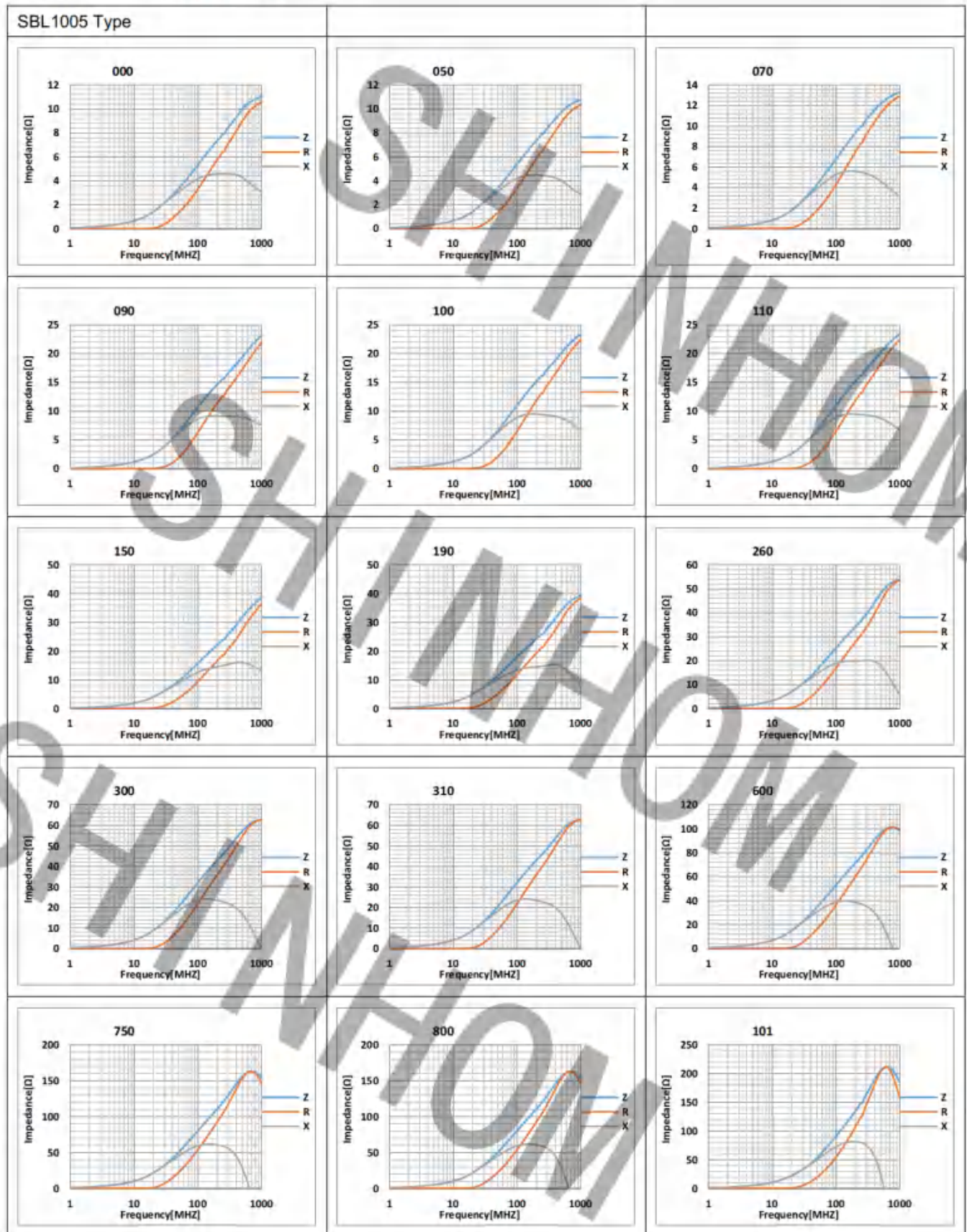
Storage period

Products which inspected inductor company over 1 year ago should be examined and used, which can be Confirmed with inspection No. marked on the container. Solder ability should be checked if this period is exceeded.

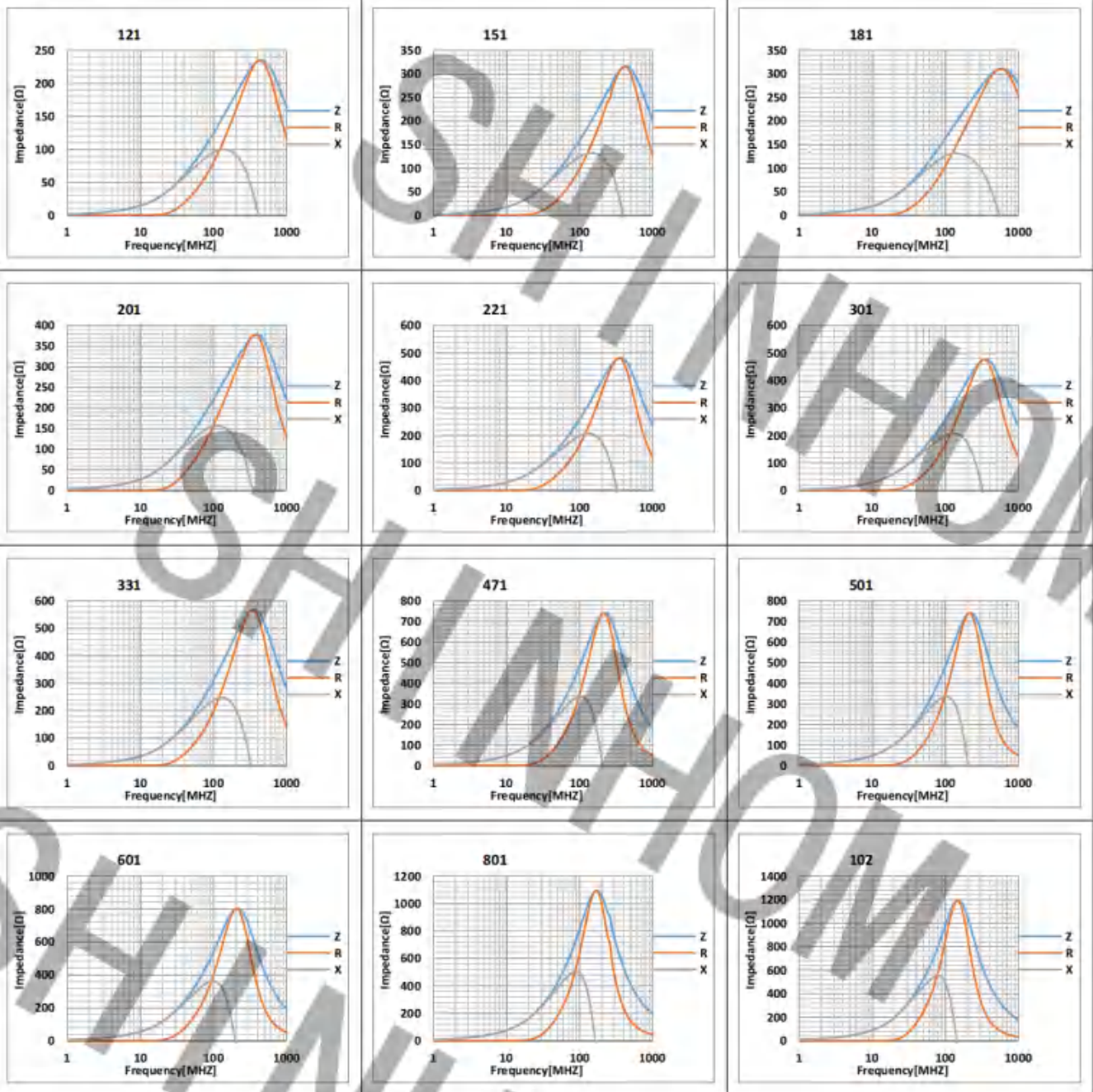
Storage conditions

- (1) Products should be storage in the warehouse on the following conditions:
Temperature : -10~+40°C Humidity: 30~70% relative humidity
- (2) Don't keep products in corrosive gases such as sulfur, chlorine gas or acid , or it may case oxidization of Electrodes resulting in poor solder ability.
- (3) Products should be stored on the palette for the prevention of the influence from humidity, dust and so on.
- (4) Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.
- (5) Products should be stored under the airtight packaged condition.

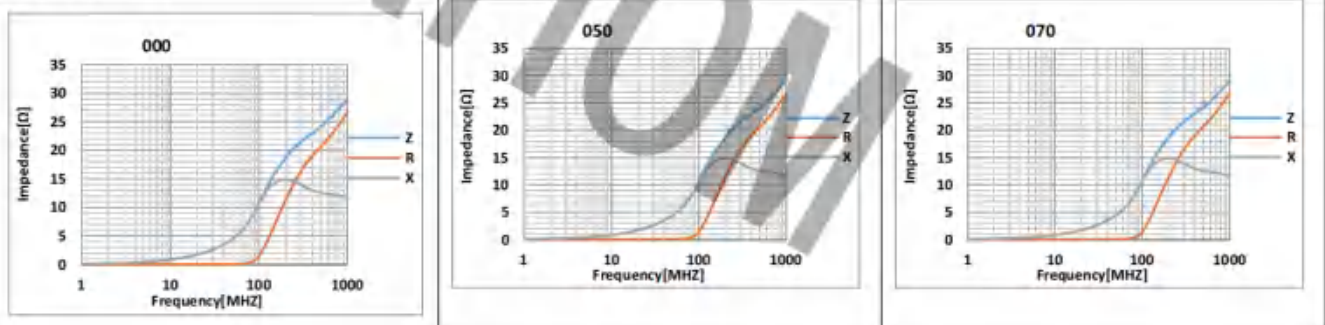
Product Characteristic Curve

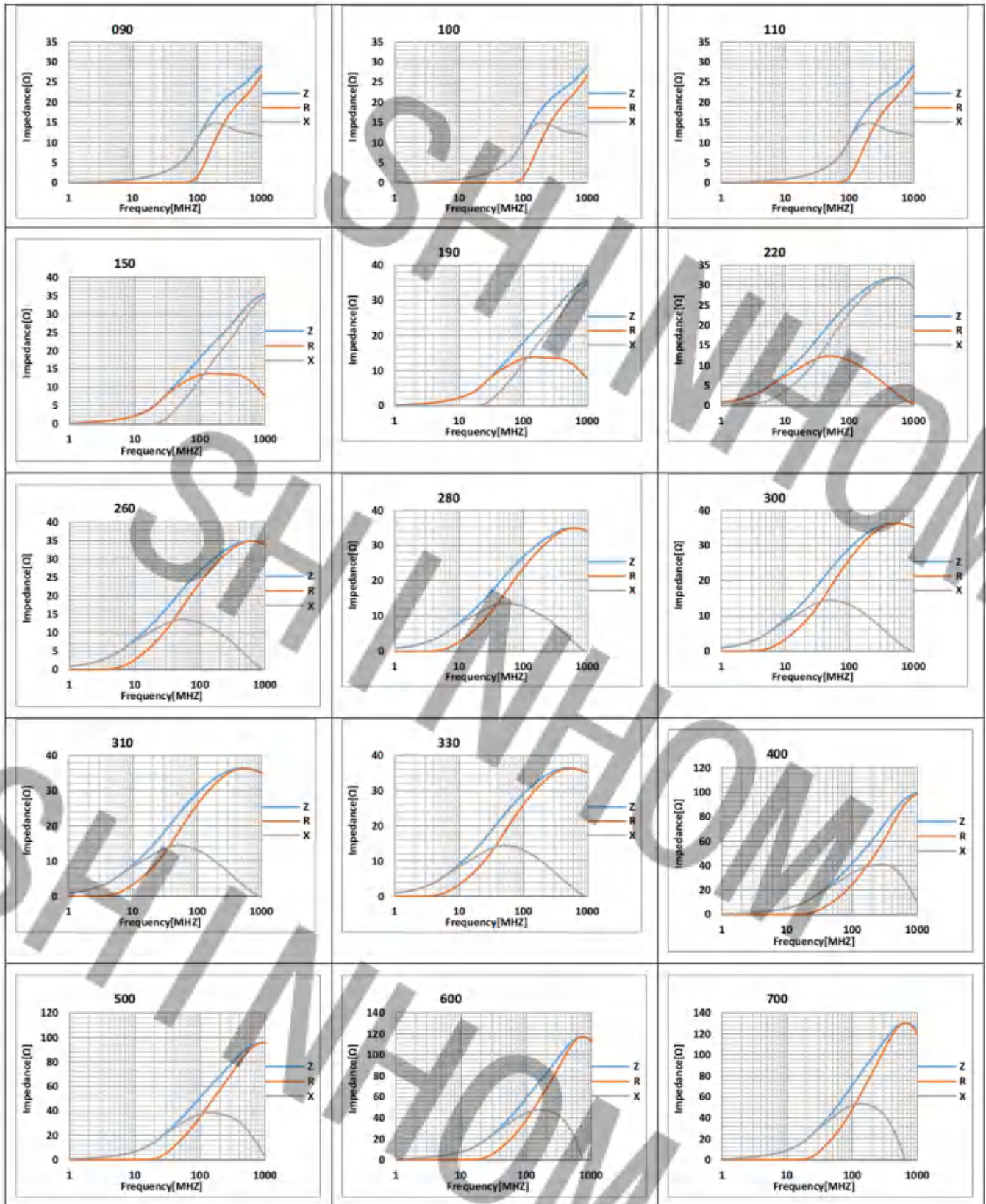


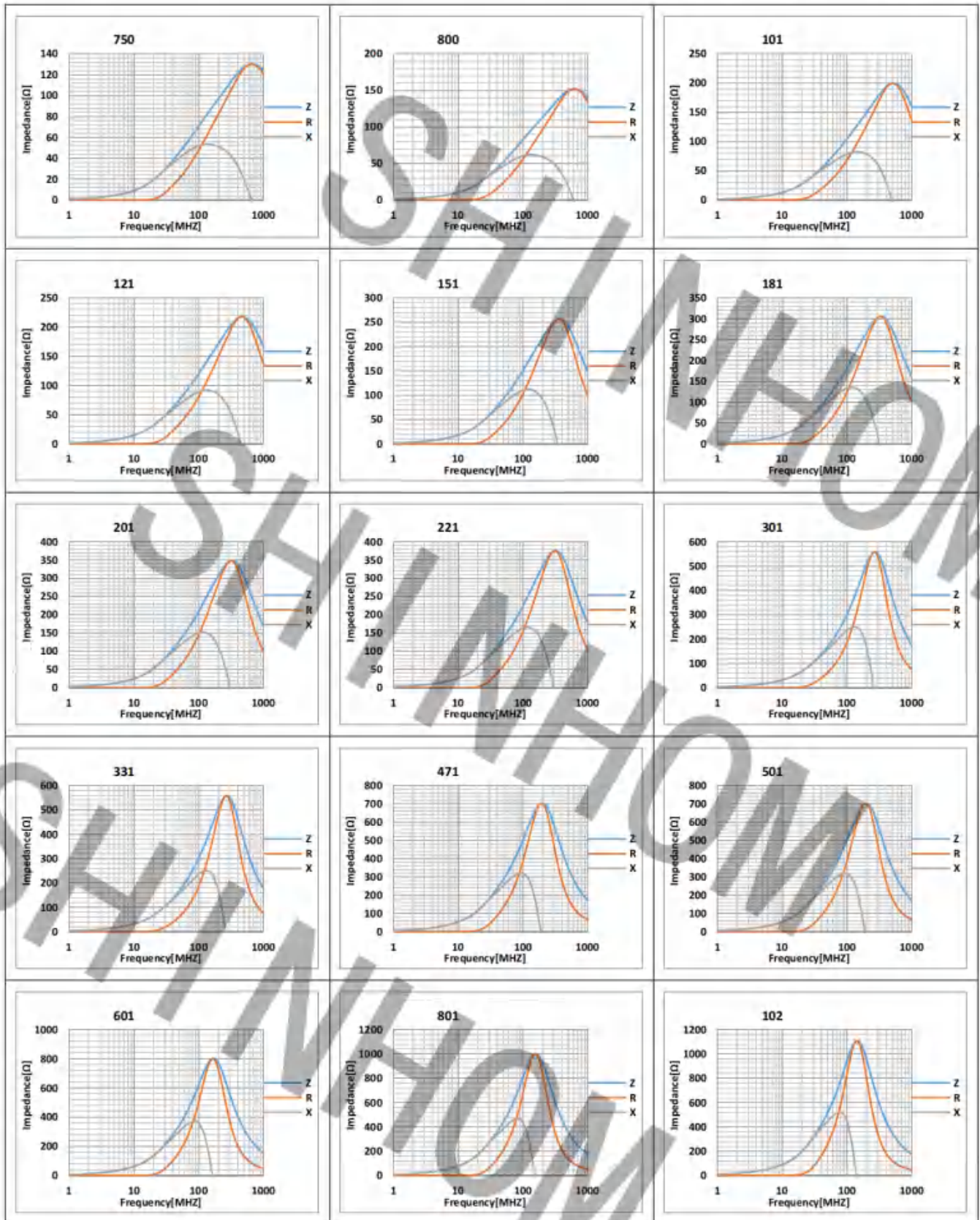
SBL1005 Type



SBL1608 Type

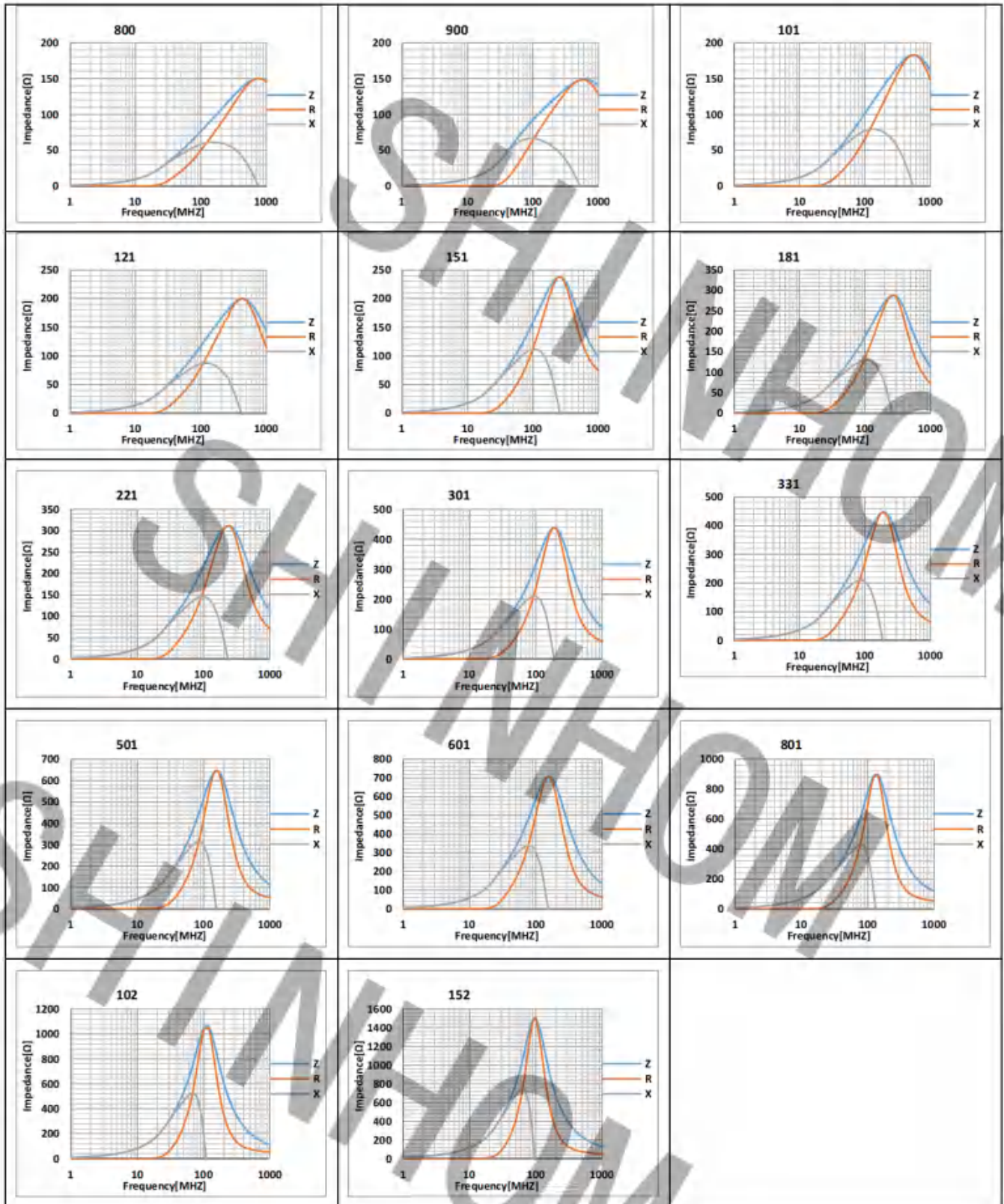






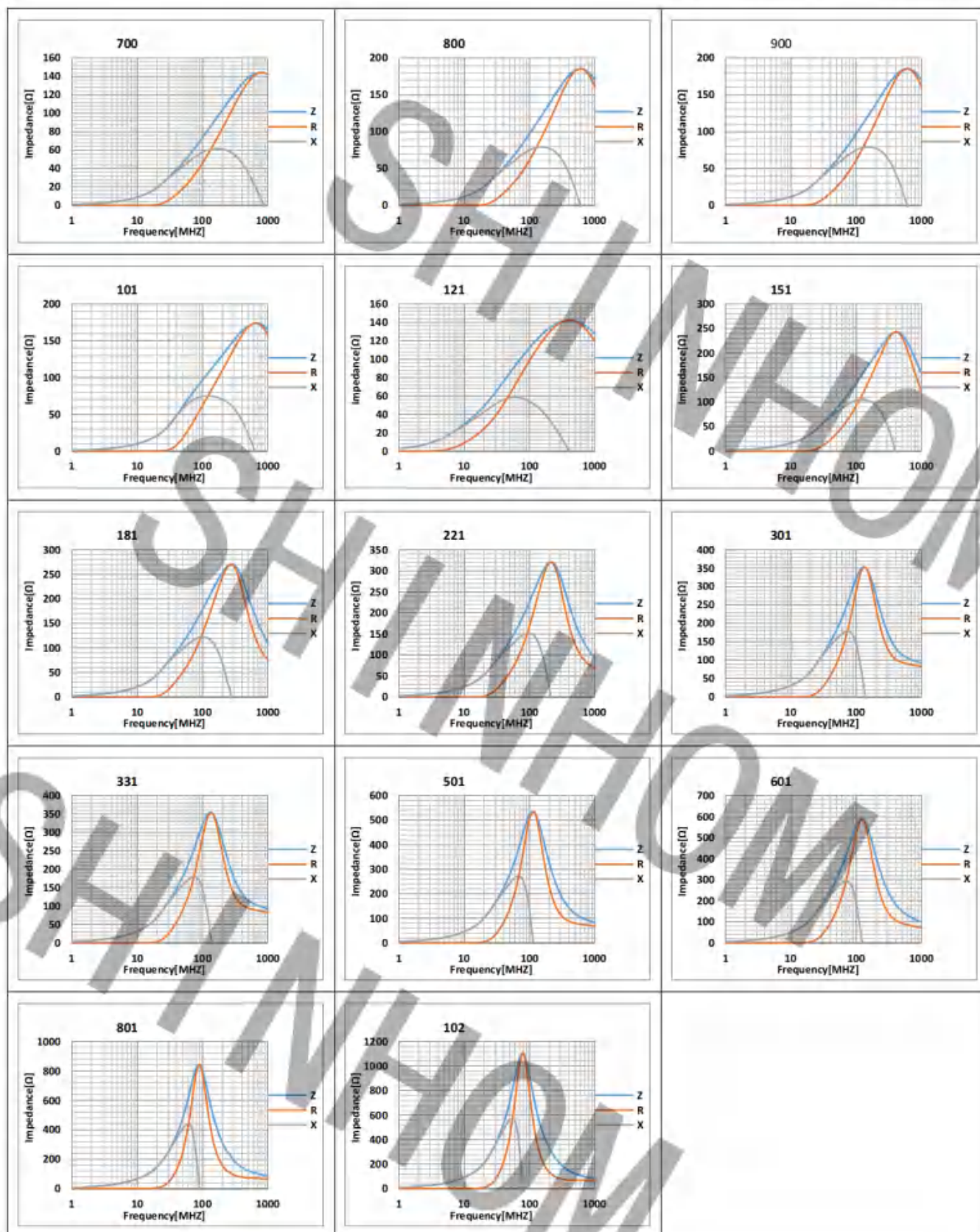
SBL2012 Type



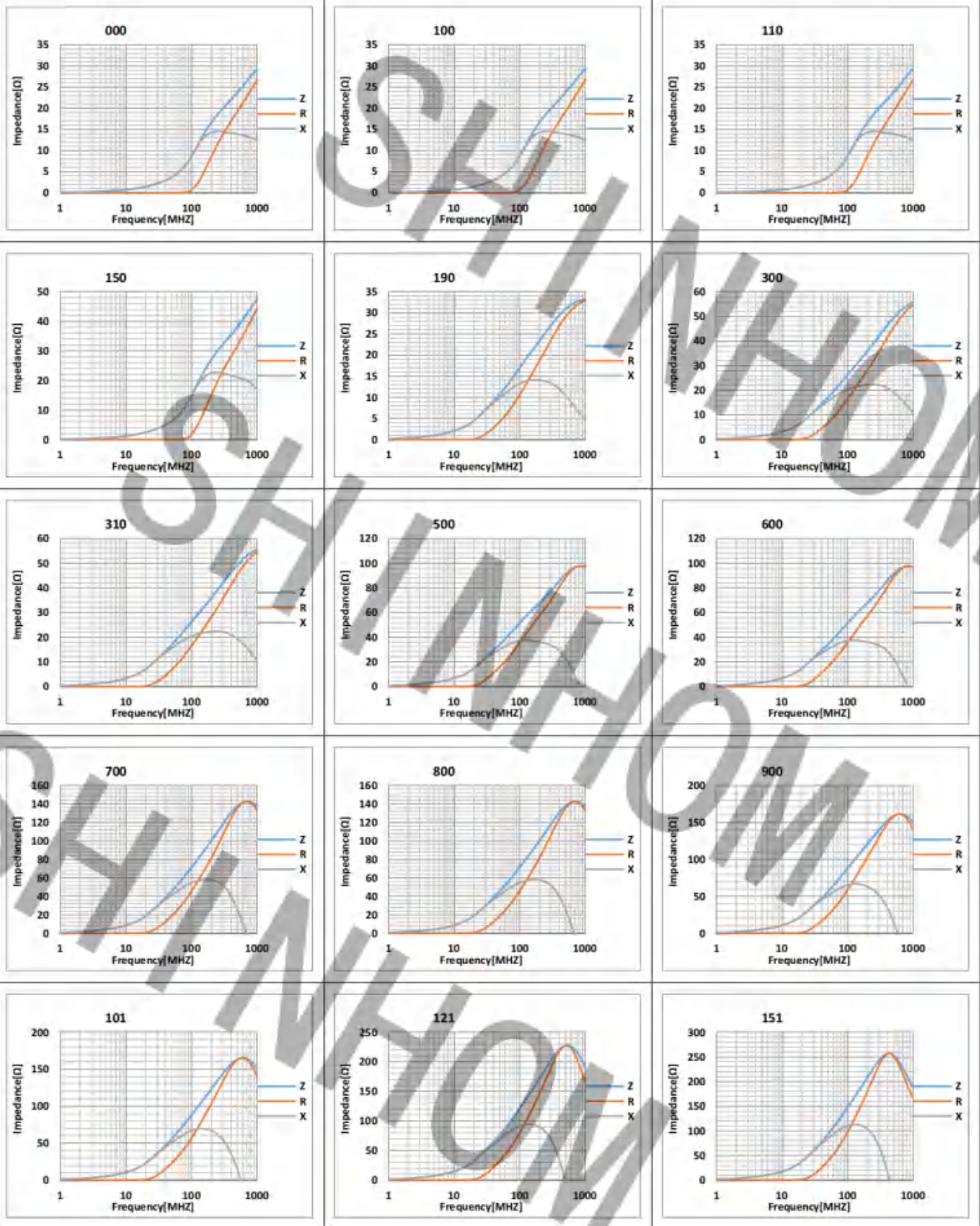


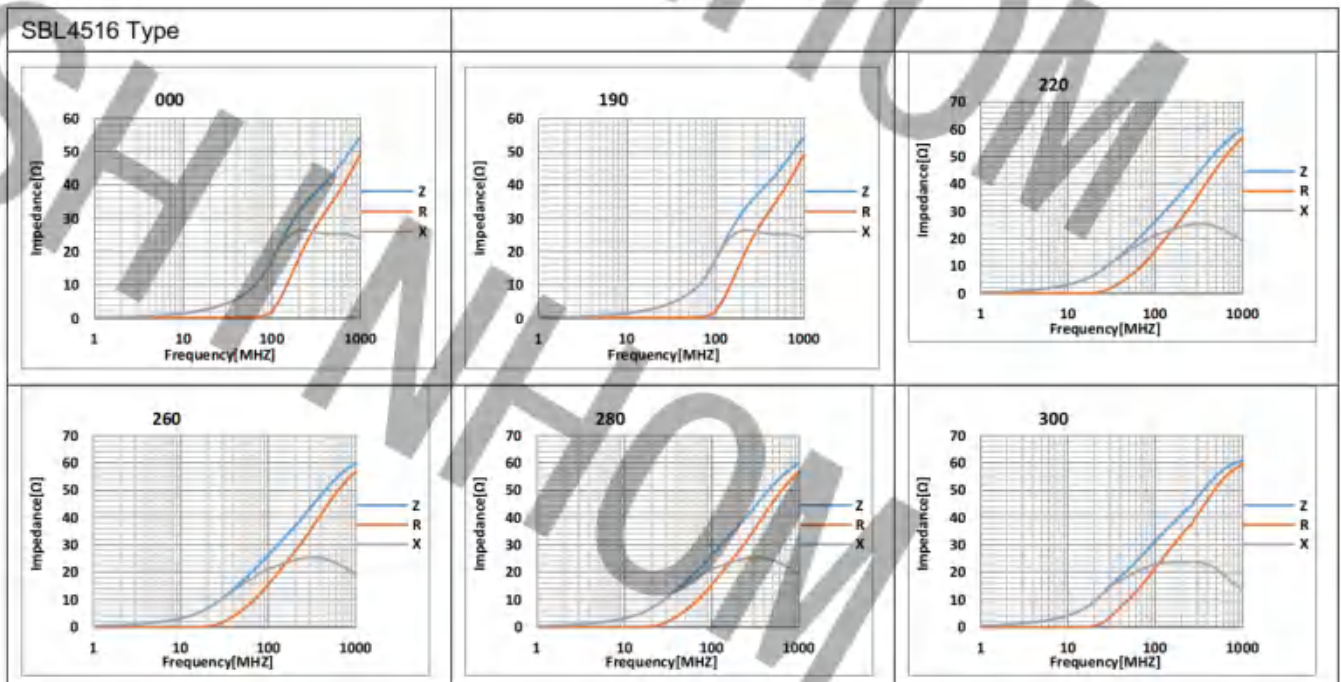
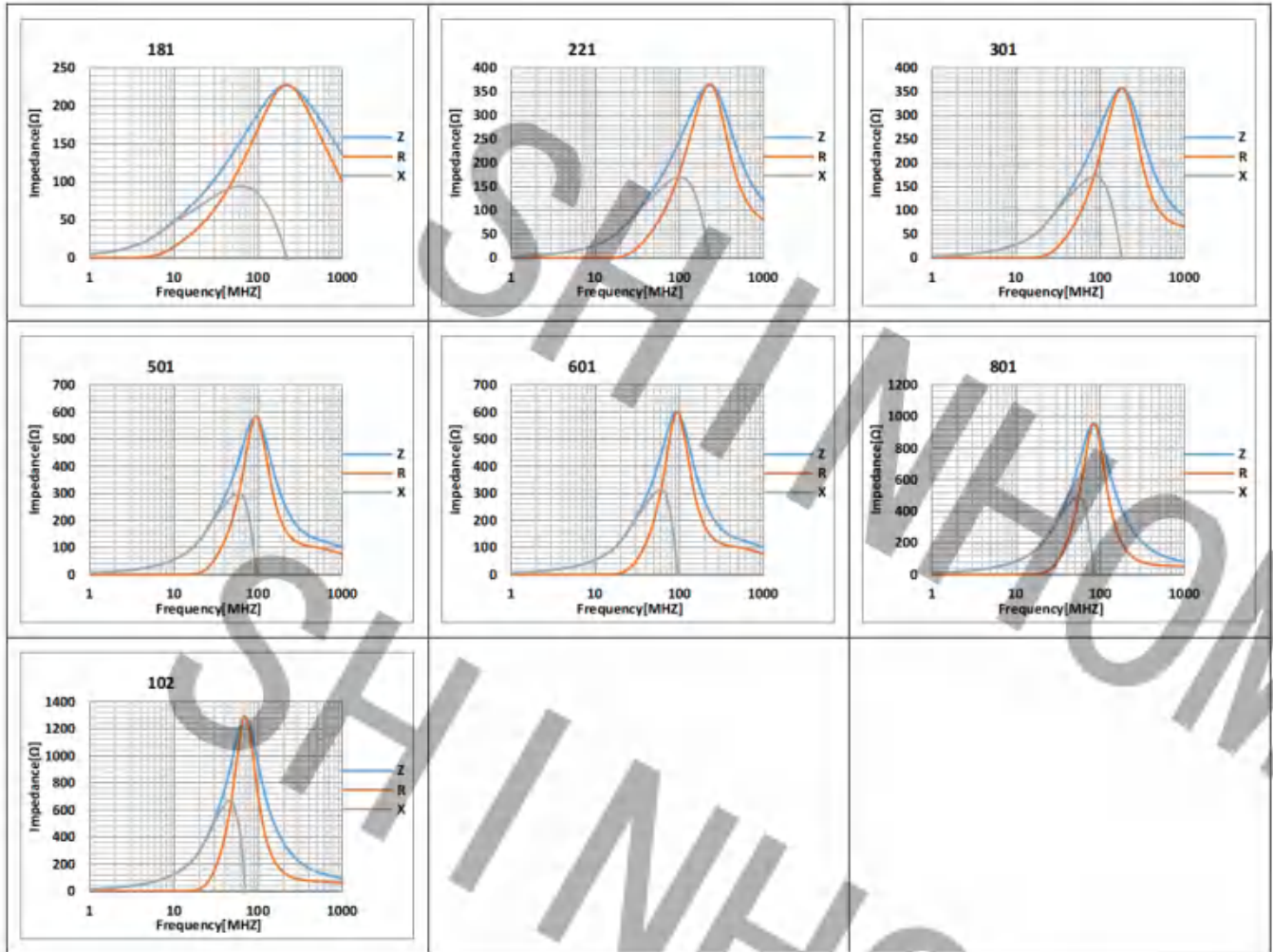
SBL3216 Type

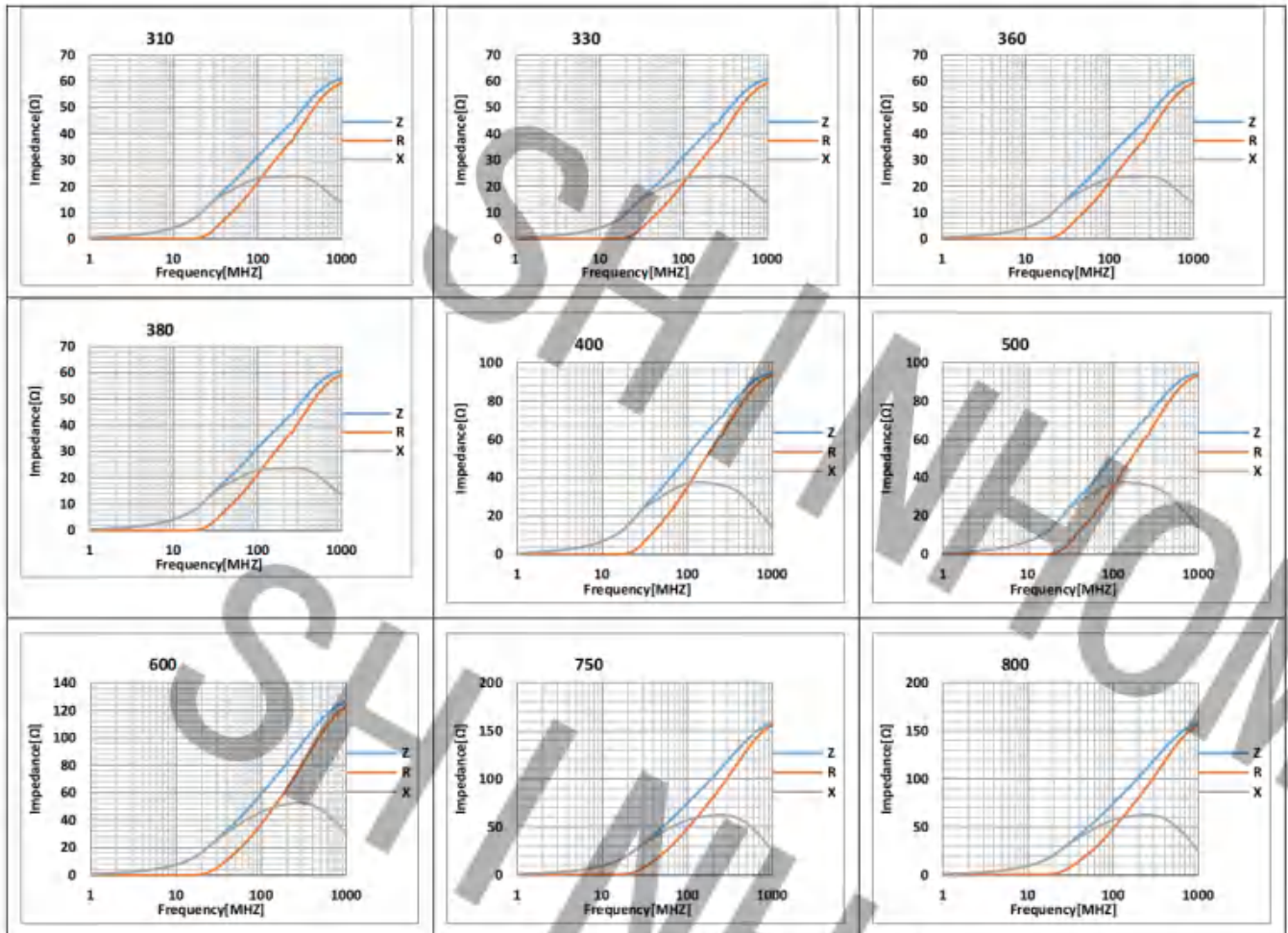




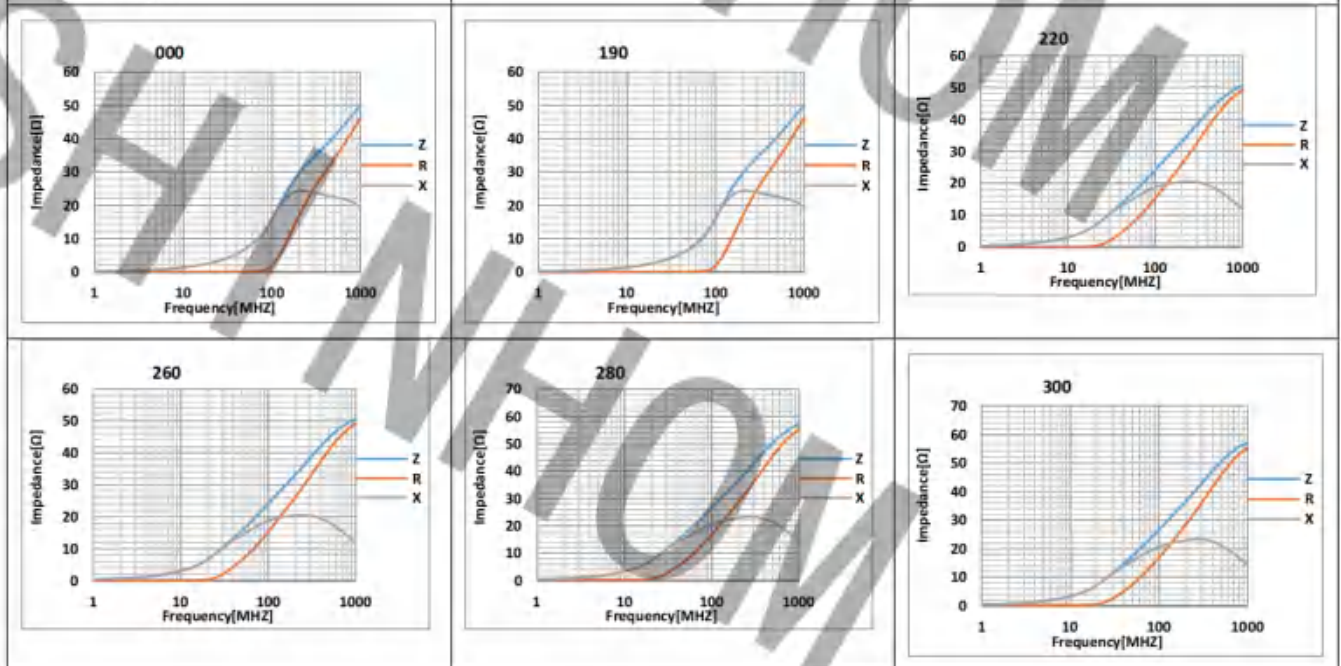
SBL3225 Type

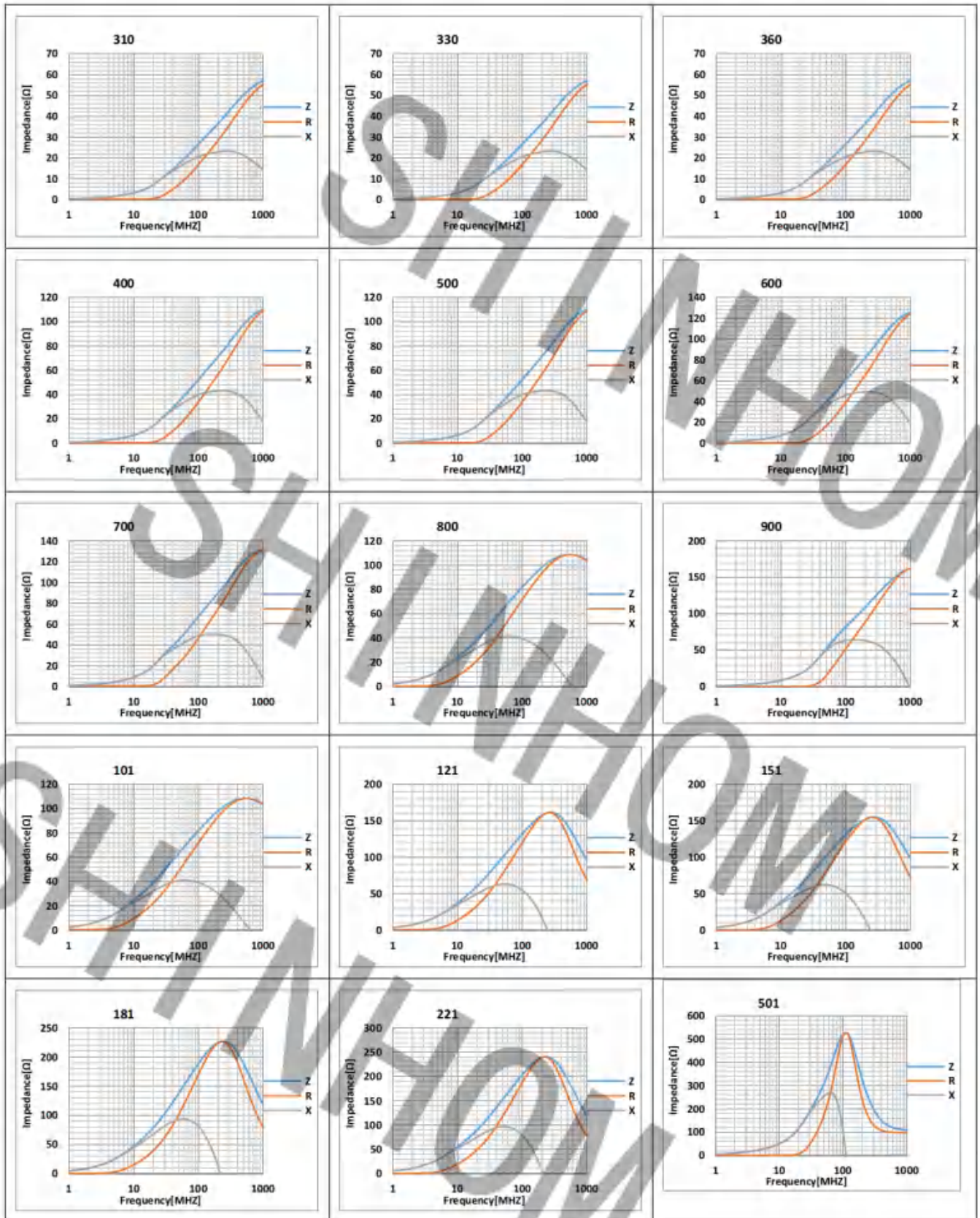


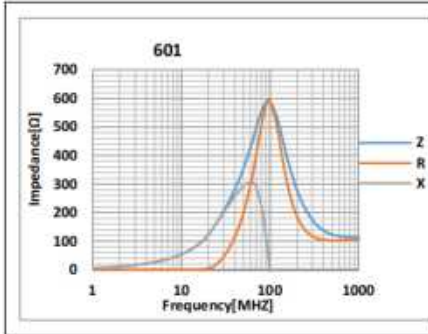




SBL4532 Type







SMD MULTI-LAYER COMMON MODE FILTER

FEATURES

- Effective for suppressing common mode noise and almost no effect for high speed differential data line
- Ultra low profile ($0.87 \times 0.67 \times 0.50\text{mm}$)
- Ceramic multilayer type SMD component
- Non-polarized product
- It is a product conforming to RoHS directive
- Operating Temperature Range -40°C to $+85^{\circ}\text{C}$

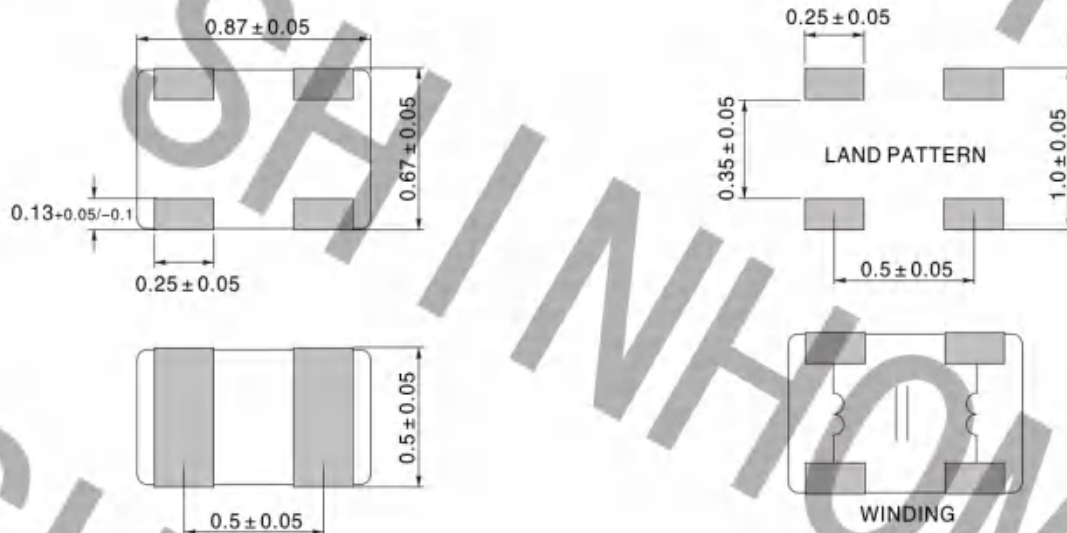
APPLICATIONS

- LVDS lines in notebook computers
- USB2.0, IEEE1394, DVI, HDMI lines in PDP, LCD TV, DVD Player, PC, Audio player, DSC
- MDDI, MIPI in mobile phone

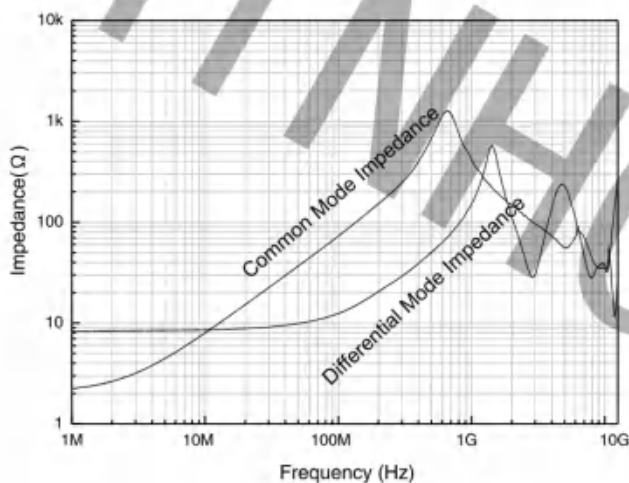
SPECIFICATION OF ELECTRICAL CHARACTERISTICS

Part Number	Common mode Impedance (Ω)@100MHz	DCR (Ω)Max	Insulation Resistance (M Ω)Min	Rated current (mA)Max	Rated voltage (V)Max	Cutoff frequency (GHz)Typ
SBA0302-2-900	$90 \pm 25\%$	6.0	10	100	5.0	4.0

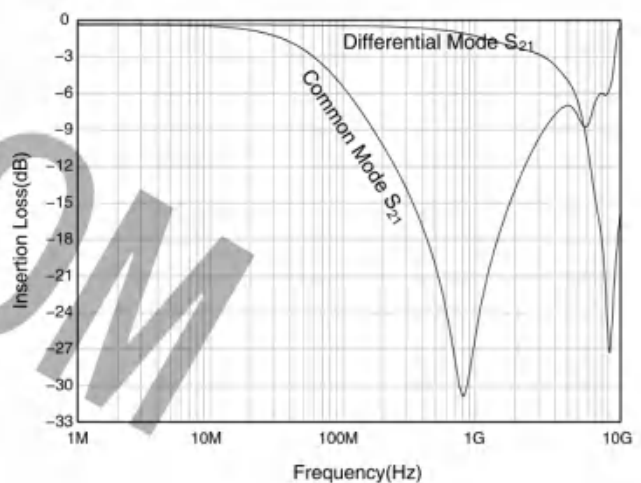
APPEARANCE AND DIMENSION



IMPEDANCE CURVES



TRANSMISSION CHARACTERISTICS (S-PARAMETER)



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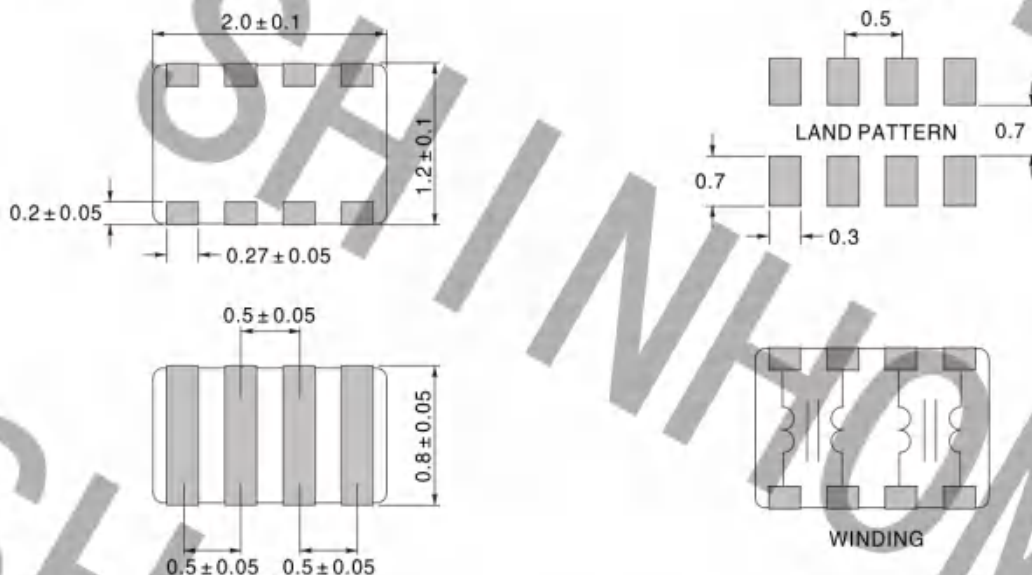
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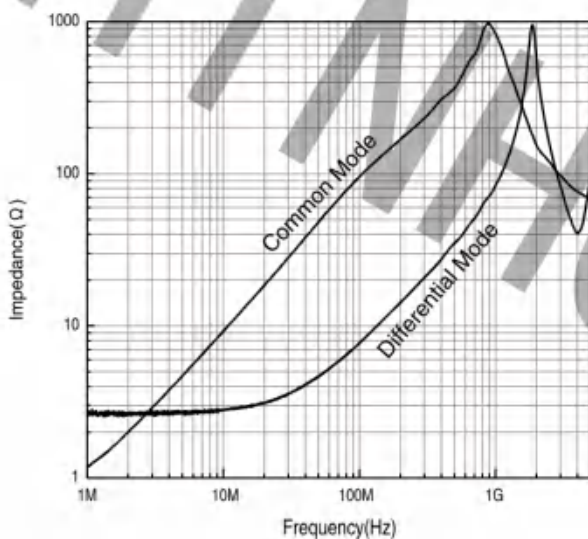
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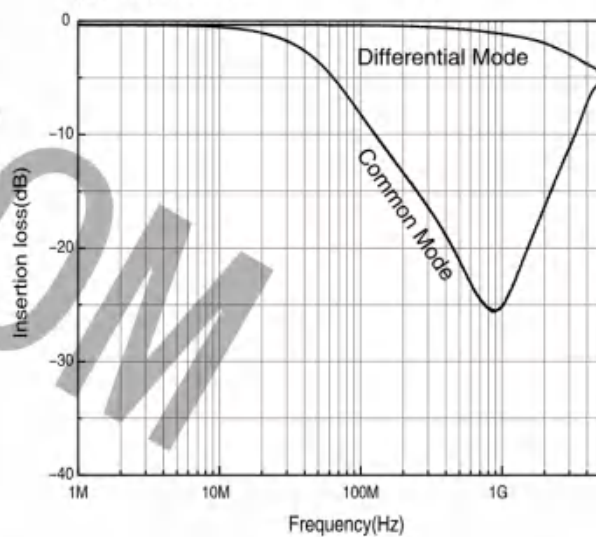
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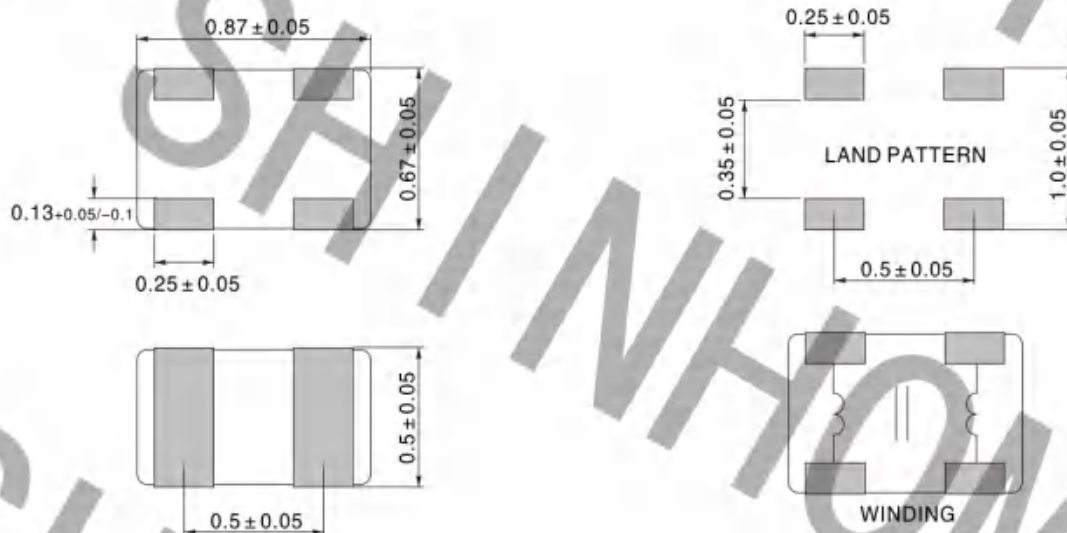
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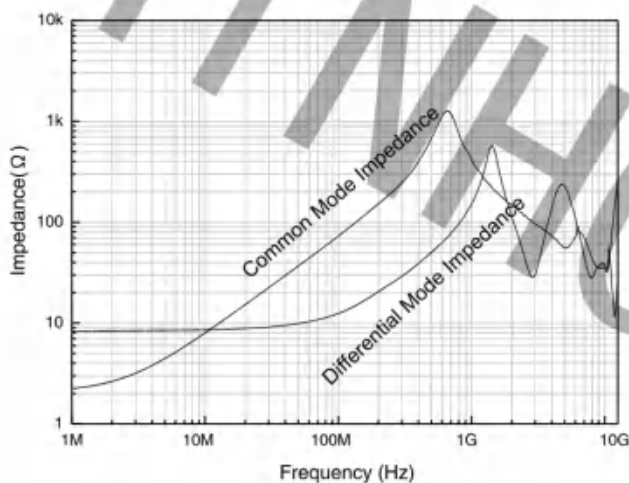
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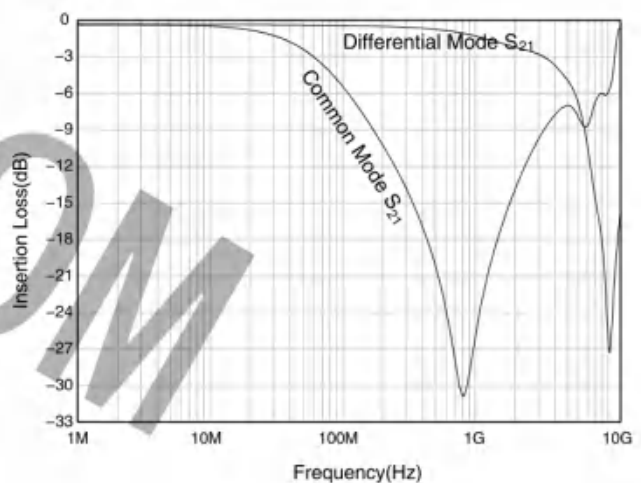
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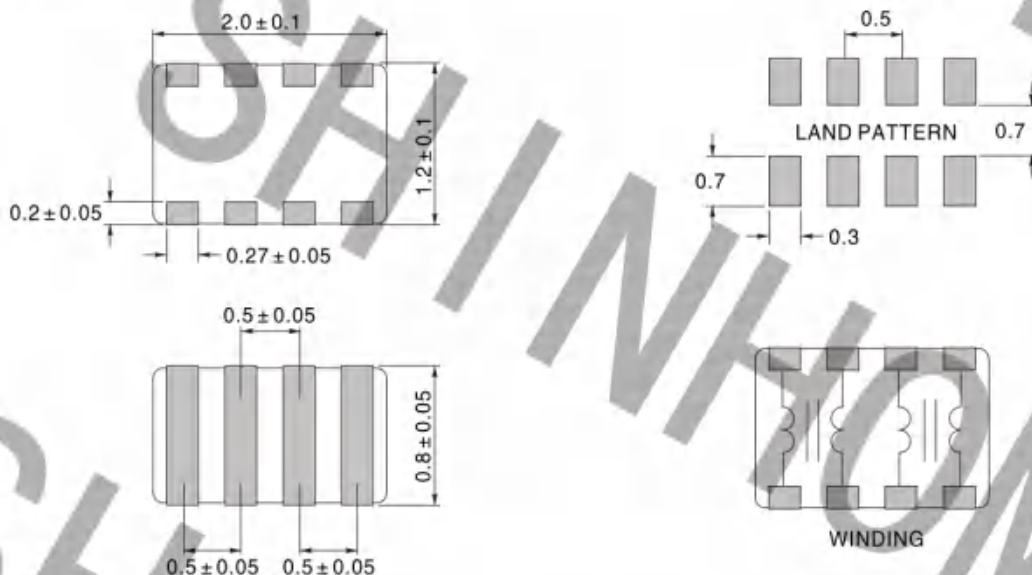
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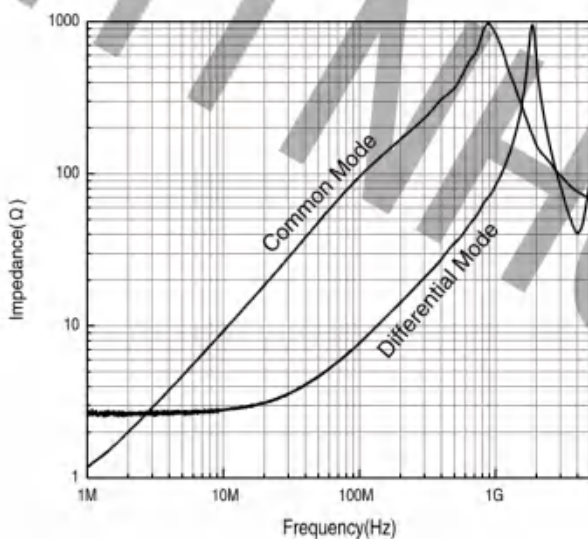
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