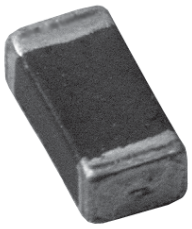
ILB-1206

Vishay Dale

Multilayer Ferrite Beads



FEATURES

- High reliability.
- Surface mountable.
- Magnetically self shielded.
- Nickel barrier plating virtually eliminates silver migration.
- 100% Lead (Pb)-free and RoHS compliant.

MECHANICAL SPECIFICATIONS*

Solderability: 90% coverage after 5 second dip in 235°C solder following 60 second preheat at 120°C to 150°C and type R flux dip.
Resistance To Solder Heat: 10 seconds in 260°C solder after preheat and flux per above.
Terminal Strength: 1.0 kilograms (2.2 pounds) minimum for 30 seconds.
Beam Strength: 2.0 kilograms (4.4 pounds) minimum.

ENVIRONMENTAL SPECIFICATIONS*

Operating Temperature: - 55°C to + 125°C.

Thermal Shock: 300 cycles, - 40°C to + 125°C.

Biased Humidity: 85% RH at 85°C, 1000 hours at full rated current.

STANDARD ELECTRICAL SPECIFICATIONS

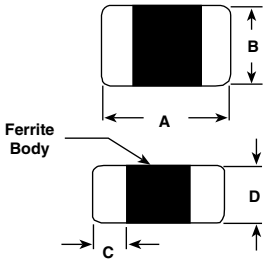
IMPEDANCE (Ohms)	TOL.	FREQUENCY (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
19	± 25%	100	0.05	500
26	± 25%	100	0.05	500
31	± 25%	100	0.05	500
50	± 25%	100	0.10	600
60	± 25%	100	0.10	600
70	± 25%	100	0.10	600
80	± 25%	100	0.20	400
90	± 25%	100	0.20	400
100	± 25%	100	0.20	400
120	± 25%	100	0.20	400
150	± 25%	100	0.20	300
200	± 25%	100	0.20	300
300	± 25%	100	0.30	300
500	± 25%	100	0.30	200
600	± 25%	100	0.30	200
800	± 25%	100	0.30	200
1000	± 25%	100	0.40	200
1200	± 25%	100	0.40	100
1500	± 25%	50	0.50	100
2000	± 25%	30	0.50	100

PACKAGING OPTIONS

- Bulk: 1,000 pieces per plastic bag.
- Tape and Reel: Paper carrier tape, 3000 pieces per reel.

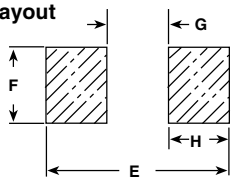
DIMENSIONS in inches [millimeters]

Dimensional Outline



A	B	C	D
0.126 ± 0.008 [3.20 ± 0.2]	0.063 ± 0.008 [1.6 ± 0.2]	0.02 ± 0.012 [0.5 ± 0.3]	0.043 ± 0.008 [1.1 ± 0.2]

Suggested Pad Layout



E	F	G	H
0.173 [4.4]	0.055 [1.4]	0.087 [2.2]	0.043 [1.1]

DESCRIPTION

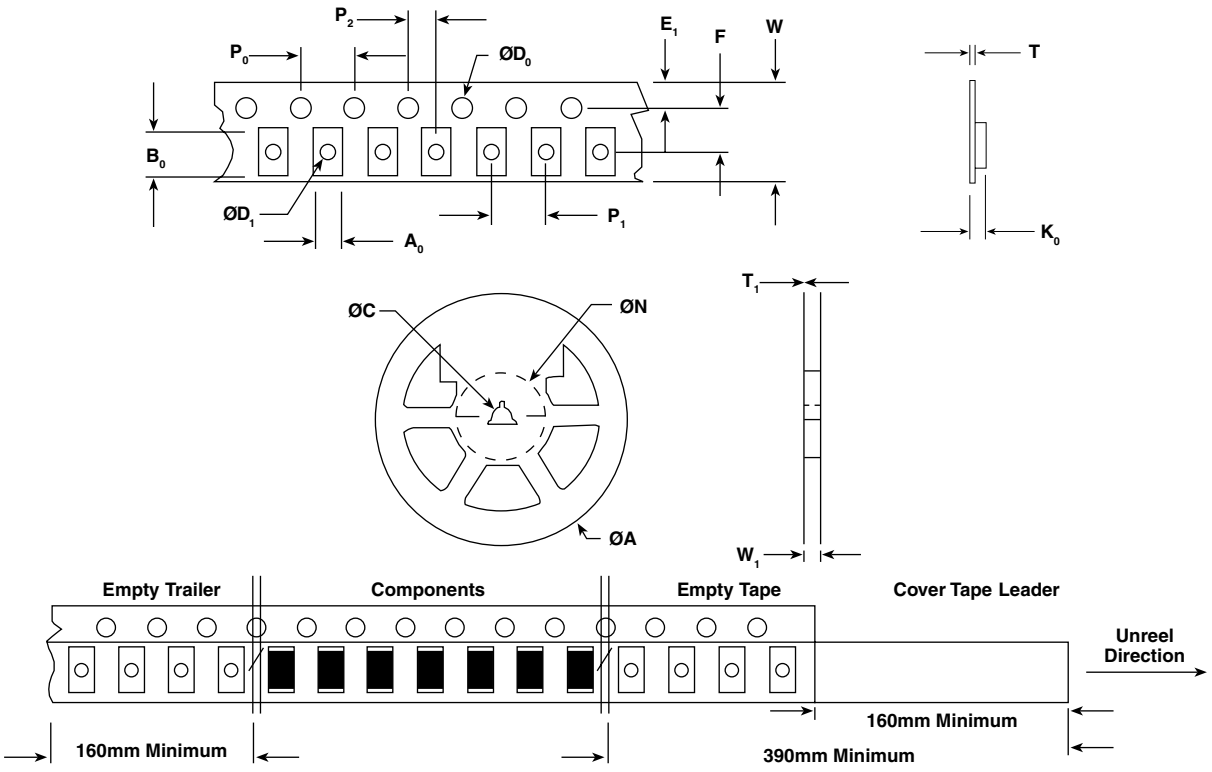
ILB-1206	19Ω	± 25%	ER	e3
MODEL	IMPEDANCE VALUE	IMPEDANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD FREE STANDARD

GLOBAL PART NUMBER

I	L	B	1	2	0	6	E	R	1	9	0	V
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.

For technical questions, contact Magnetics@vishay.com

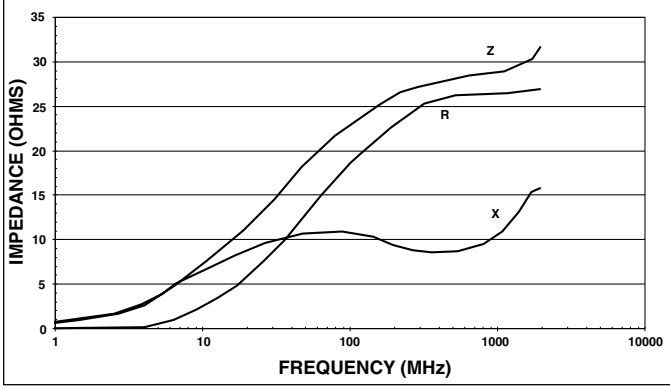
TAPE AND REEL SPECIFICATIONS in inches [millimeters]



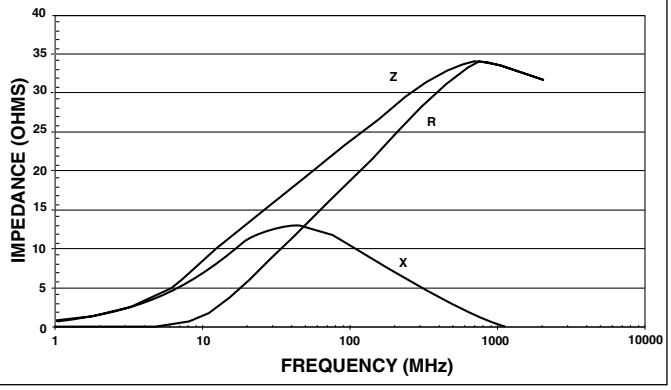
A_0	0.071 ± 0.008 [1.8 ± 0.2]	P_2	0.079 ± .002 [2.00 ± 0.05]
B_0	0.14 ± .006 [3.45 ± 0.15]	W	0.327 Max. [8.3 Max.]
D_0	0.059 + .005/- 0.000 [1.5 + 0.127]	T	0.009 ± .002 [0.2 ± 0.05]
D_1	0.039 Min. [1.0 Min.]	A	7.000 ± .079 [178 ± 2.0]
E_1	0.069 ± .004 [1.75 ± 0.1]	N	2.500 [63.5]
F	0.138 ± .002 [3.50 ± 0.05]	C	0.512 ± .020 [13.00 + 0.50]
K_0	0.049 ± .002 [1.24 ± 0.05]	W_1	0.315 + 0.059/- 0.00 [8.00 + 1.50]
P_0	0.157 ± .004 [4.00 ± 0.1]	T_1	0.079 ± .002 [2.00 ± 0.05]
P_1	0.157 ± .004 [4.00 ± 0.1]		

TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R

ILB-1206 19Ω

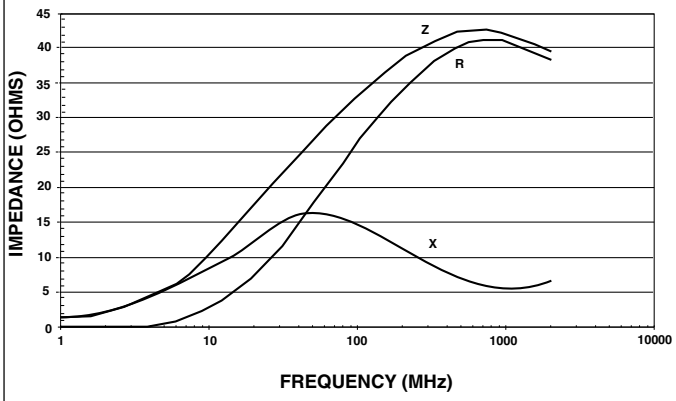


ILB-1206 26Ω

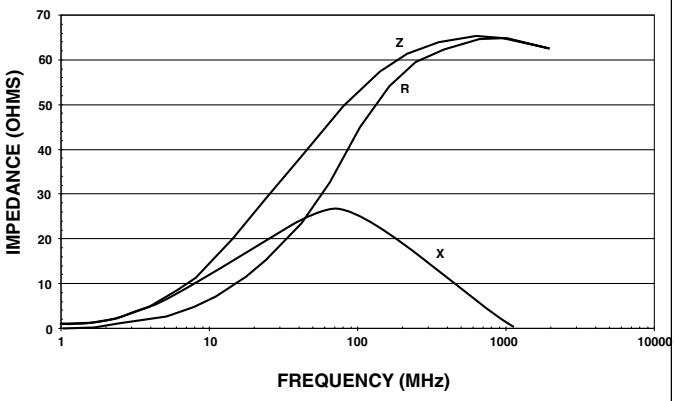


TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R

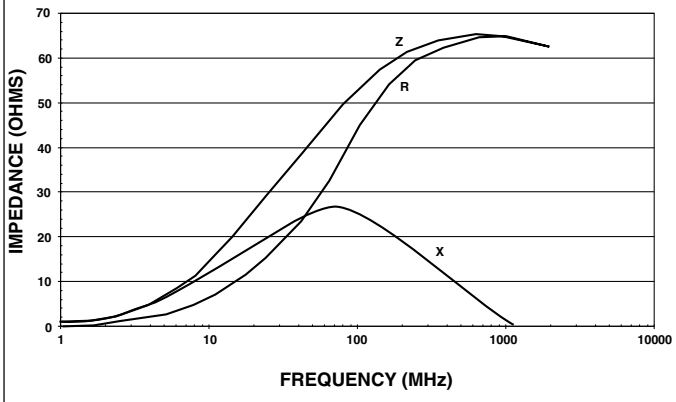
ILB-1206 31Ω



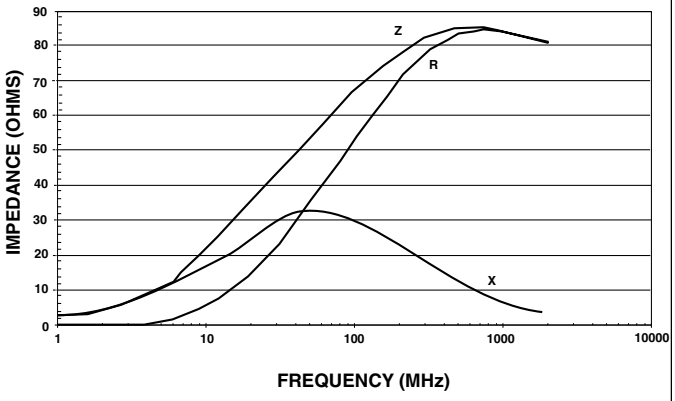
ILB-1206 50Ω



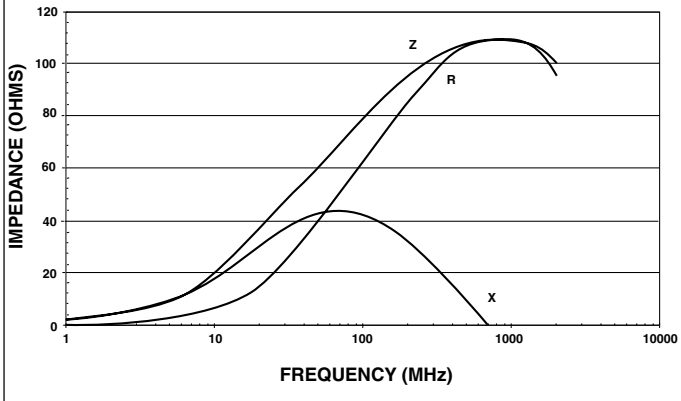
ILB-1206 60Ω



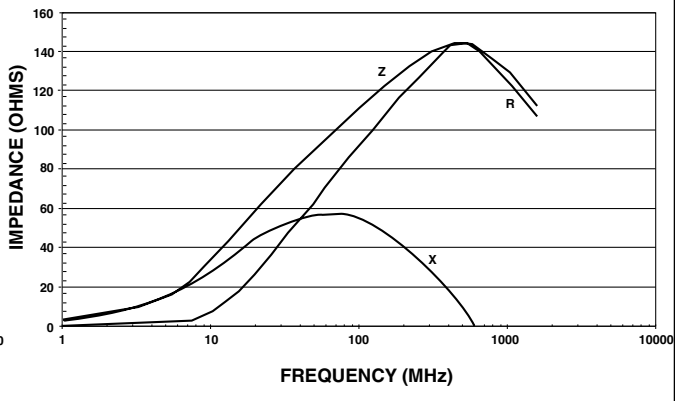
ILB-1206 70Ω



ILB-1206 80Ω

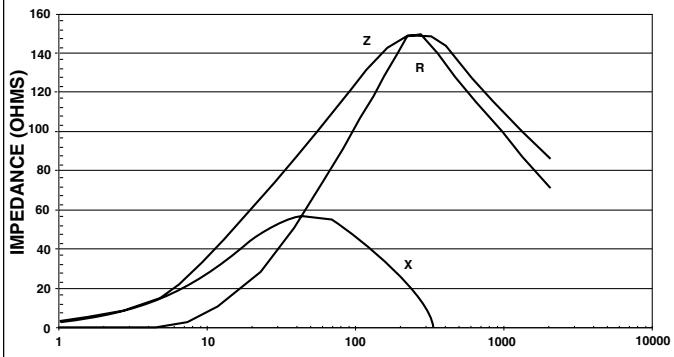


ILB-1206 90Ω

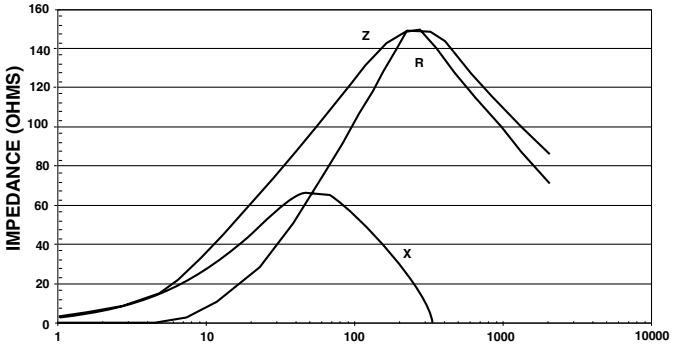


TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R

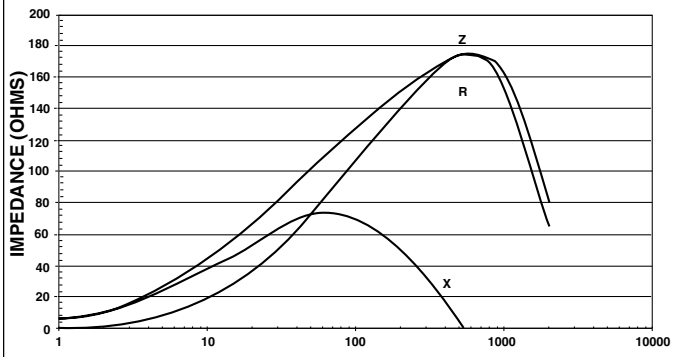
ILB-1206 100Ω



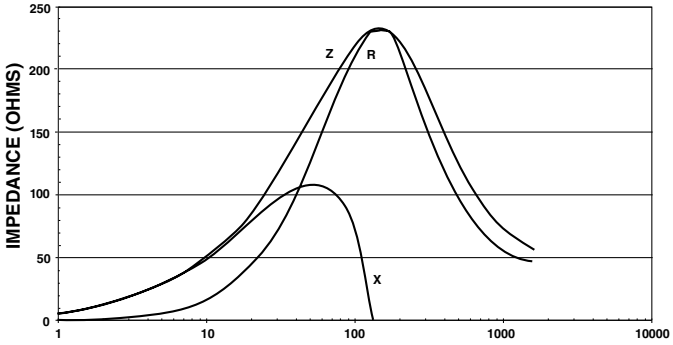
ILB-1206 120Ω



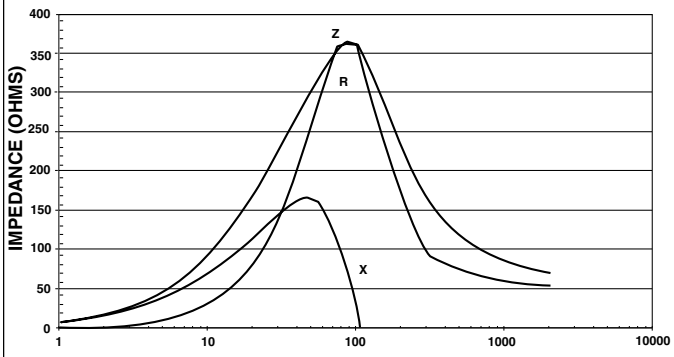
ILB-1206 150Ω



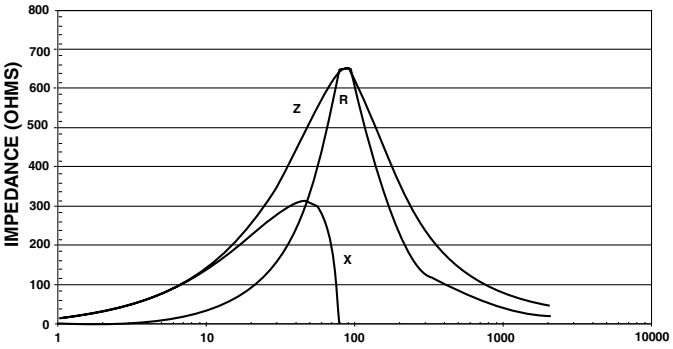
ILB-1206 200Ω



ILB-1206 300Ω

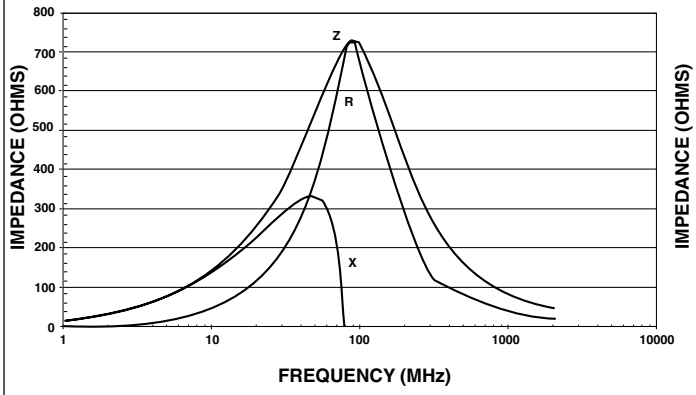


ILB-1206 500Ω

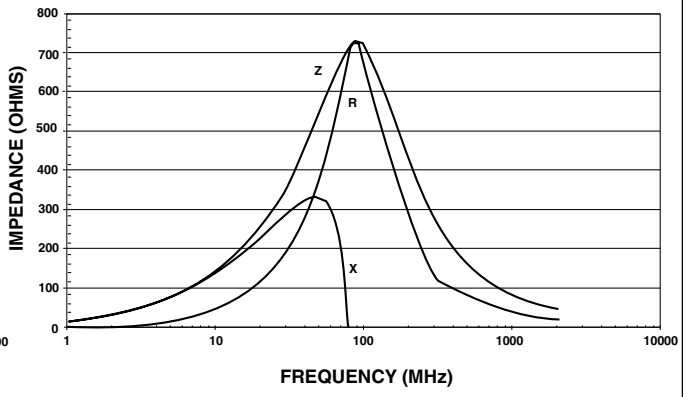


TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R

ILB-1206 600Ω



ILB-1206 800Ω



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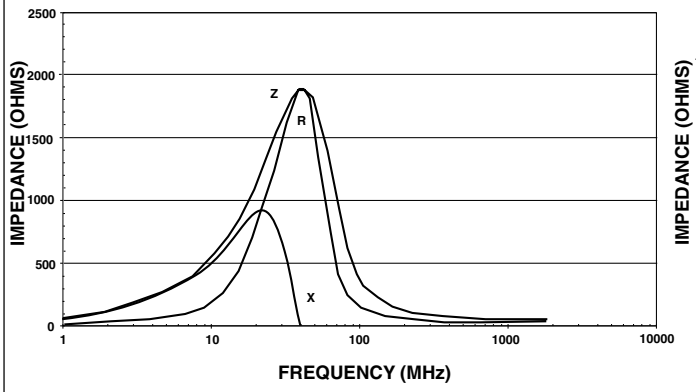
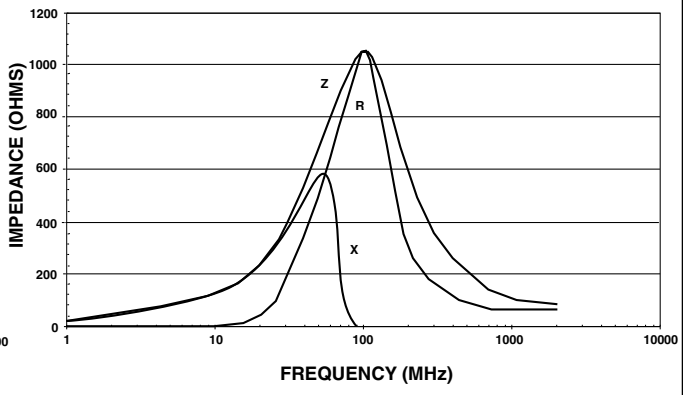
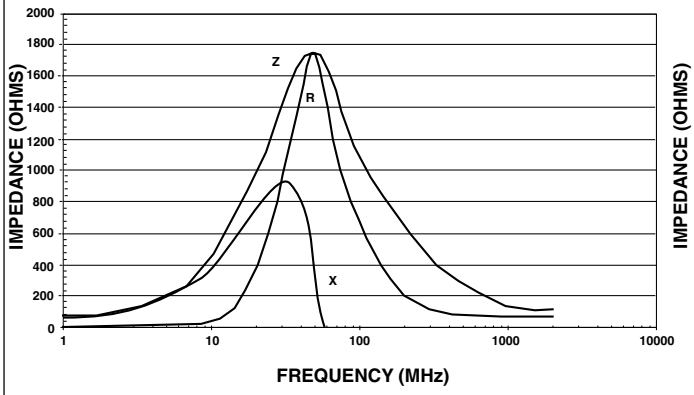


ILB-1206 1200Ω



ILB-1206 1500Ω



ILB-1206 2000Ω