

Multilayer Ferrite Beads



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

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: 1000 pieces per plastic bag
- Tape and Reel: Paper carrier tape, 3000 pieces per reel

FEATURES

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



RoHS
COMPLIANT

ENVIRONMENTAL SPECIFICATIONS

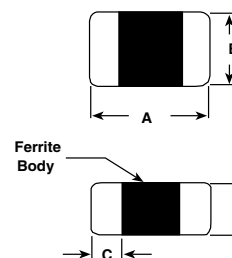
Operating Temperature: - 55 °C to + 125 °C

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

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

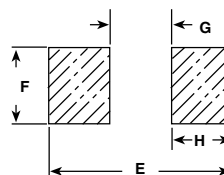
DIMENSIONS in inches [millimeters]

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
MODEL

19 Ω
IMPEDANCE
VALUE

± 25 %
IMPEDANCE
TOLERANCE

ER
PACKAGE
CODE

e3
JEDEC LEAD
(Pb)-FREE STANDARD

GLOBAL PART NUMBER

I L B
PRODUCT FAMILY

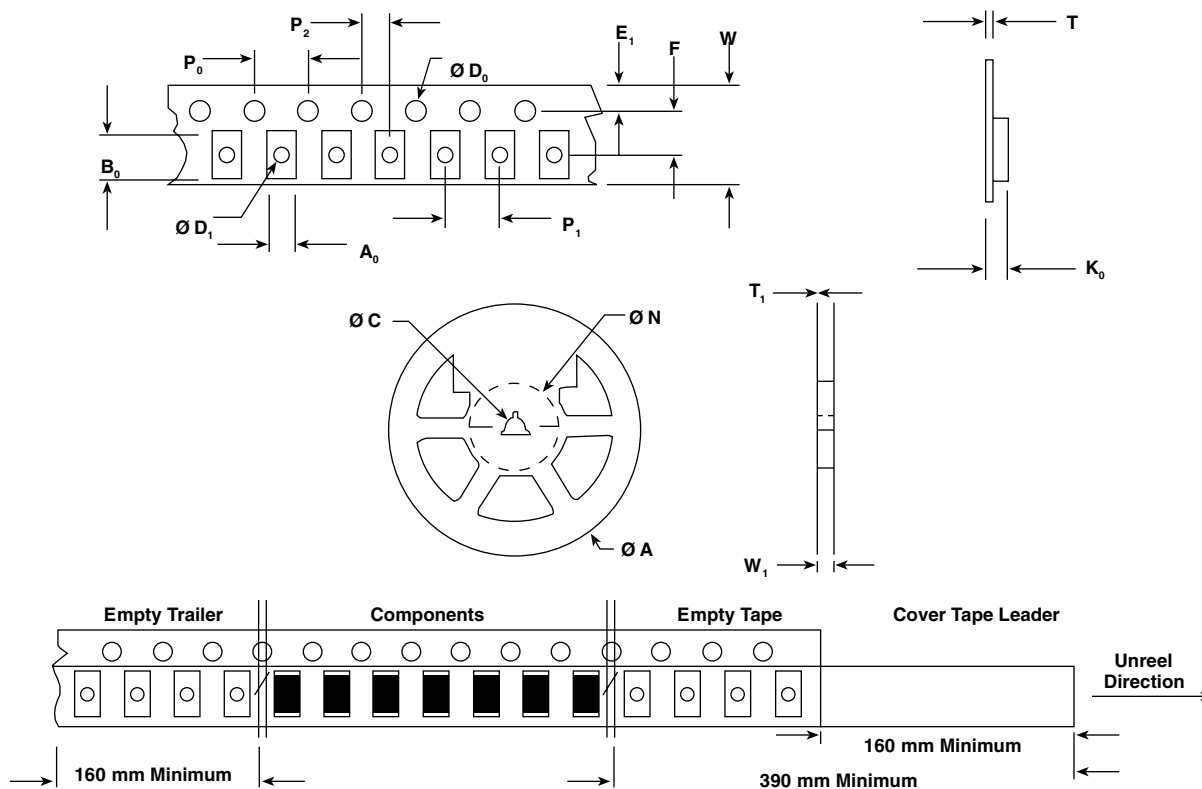
1 2 0 6
SIZE

E R
PACKAGE
CODE

1 9 0
IMPEDANCE
VALUE

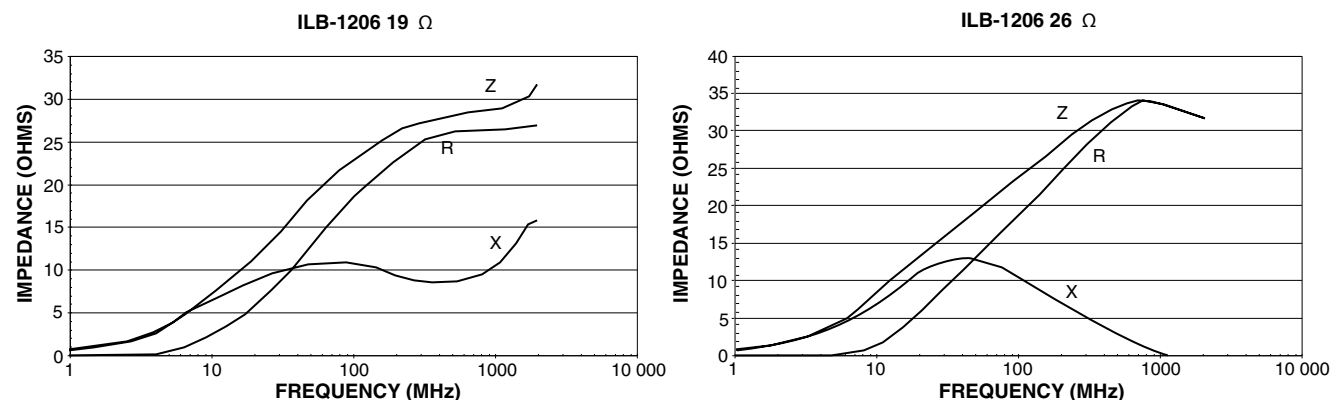
V
IMPEDANCE
TOLERANCE

TAPE AND REEL SPECIFICATIONS in inches [millimeters]



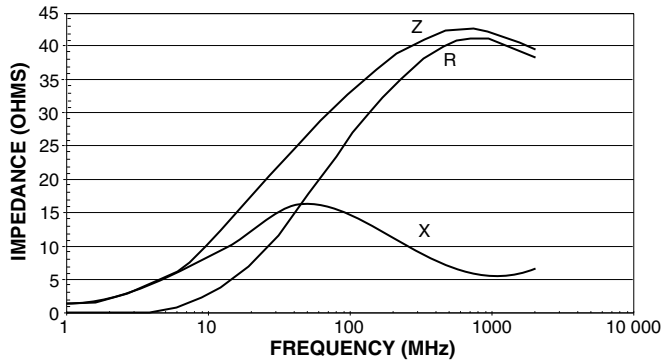
A_0	0.071 ± 0.008 [1.8 $\pm$ 0.2]	P_2	$0.079 \pm .002$ [2.00 $\pm$ 0.05]
B_0	$0.14 \pm .006$ [3.45 $\pm$ 0.15]	W	0.327 Max. [8.3 Max.]
D_0	$0.059 + .005/- 0.000$ [1.5 + 0.127]	T	$0.009 \pm .002$ [0.2 $\pm$ 0.05]
D_1	0.039 Min. [1.0 Min.]	A	$7.000 \pm .079$ [178 $\pm$ 2.0]
E_1	$0.069 \pm .004$ [1.75 $\pm$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

TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R

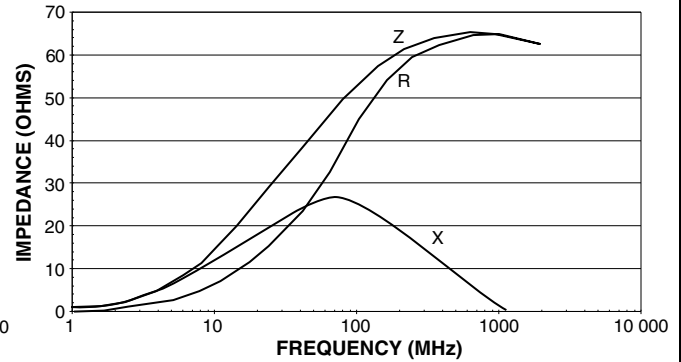


TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R

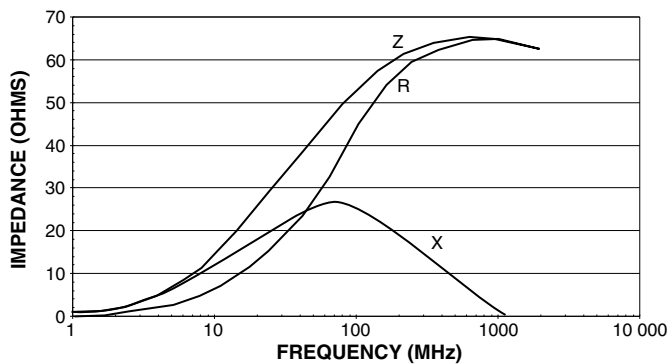
ILB-1206 31 Ω



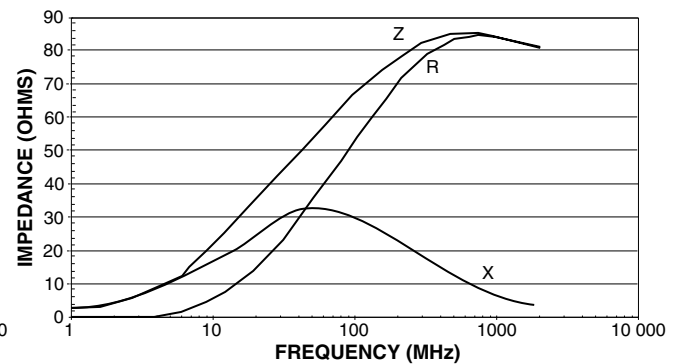
ILB-1206 50 Ω



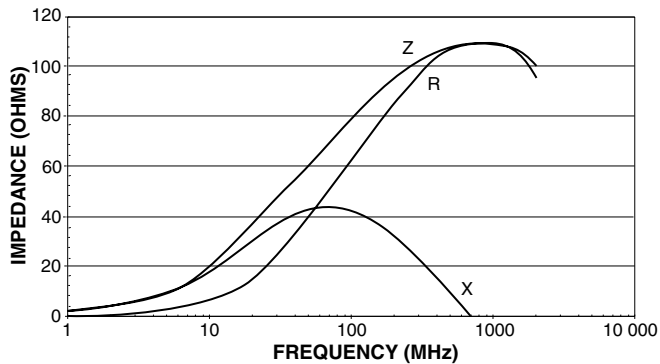
ILB-1206 60 Ω



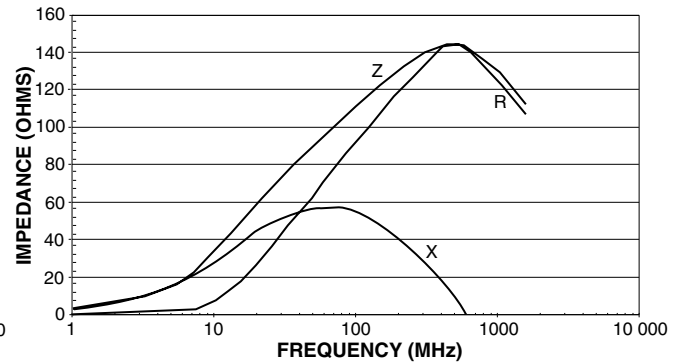
ILB-1206 70 Ω

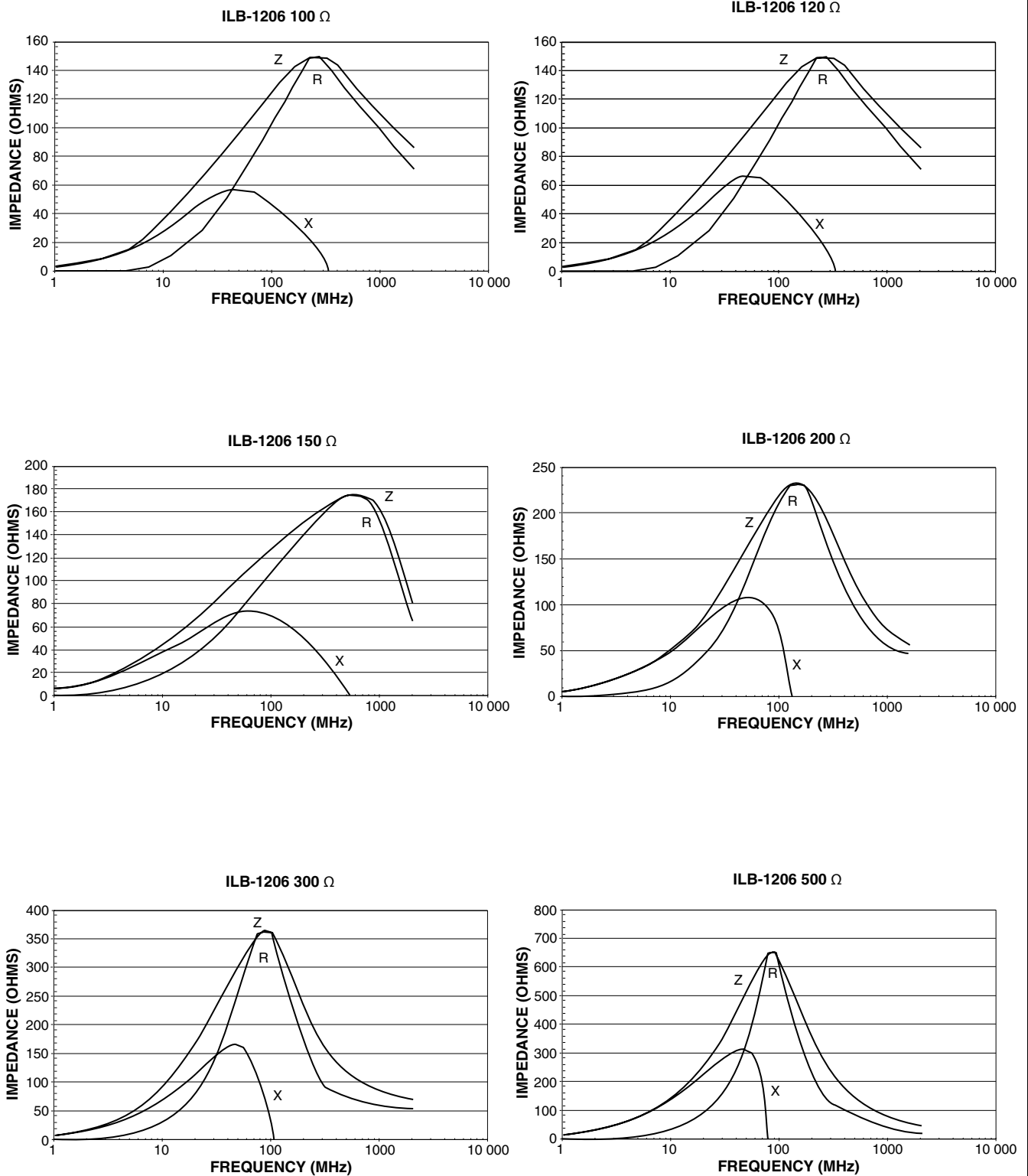


ILB-1206 80 Ω

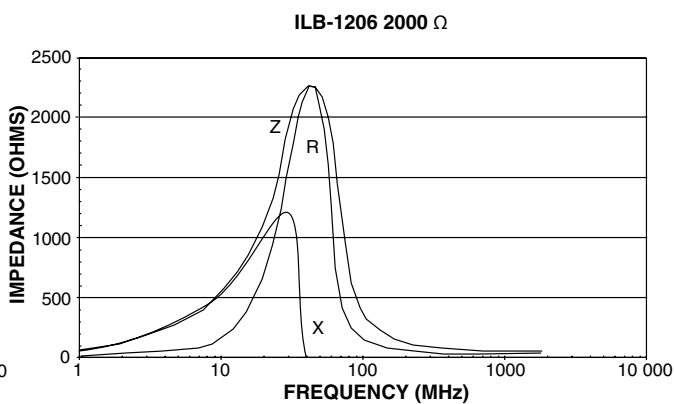
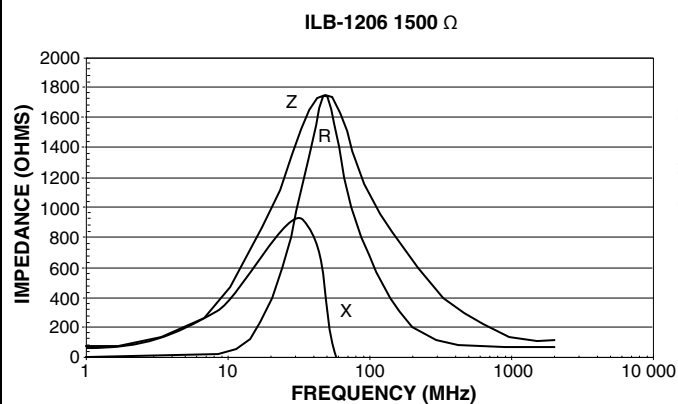
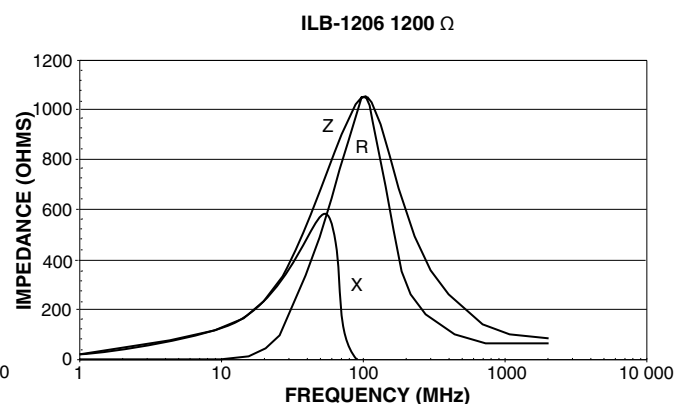
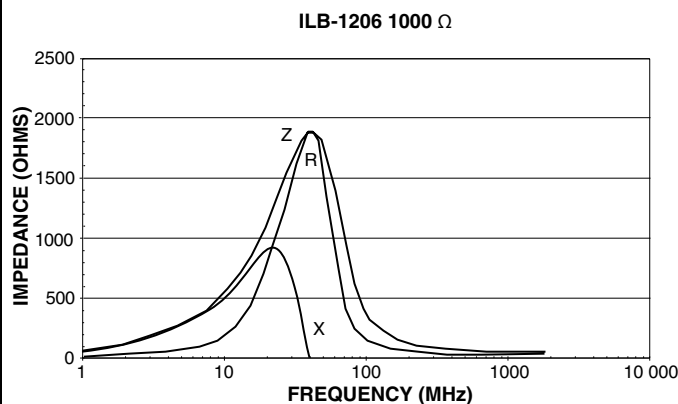
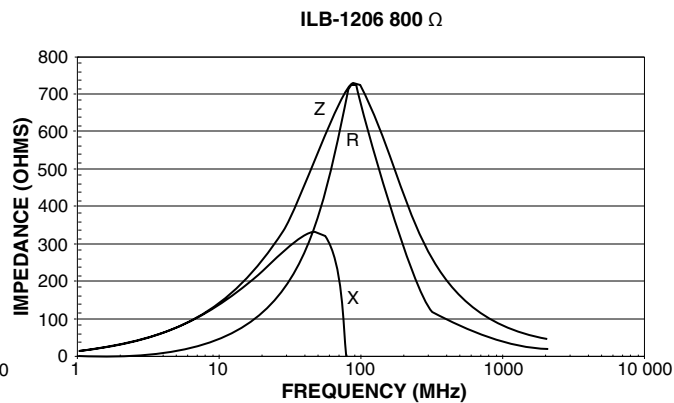
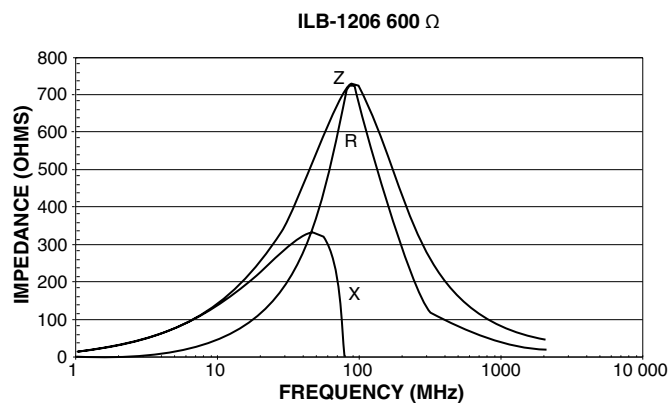


ILB-1206 90 Ω



**TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R**

TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R





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<u>ILB1206RK151V</u>	<u>ILB1206ER201V</u>	<u>ILB1206RK301V</u>	<u>ILB1206RK600V</u>	<u>ILB1206ER700V</u>	<u>ILB1206ER310V</u>
<u>ILB1206ND121V</u>	<u>ILB1206ES121V</u>	<u>ILB1206RK260V</u>	<u>ILB1206RK700V</u>	<u>ILB1206RK190V</u>	<u>ILB1206RK500V</u>
<u>ILB1206RK310V</u>	<u>ILB1206RK501V</u>	<u>ILB1206RK601V</u>	<u>ILB1206RK201V</u>	<u>ILB1206RK801V</u>	<u>ILB1206RK102V</u>
<u>ILB1206RK121V</u>	<u>ILB1206ER102V</u>	<u>ILB1206ER121V</u>	<u>ILB1206ER801V</u>	<u>ILB1206ER151V</u>	<u>ILB1206ER190V</u>
<u>ILB1206ER600V</u>	<u>ILB1206ER601V</u>	<u>ILB1206ES601V</u>			