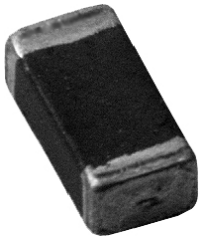
Multilayer Ferrite Beads



FEATURES

- High reliability
- Surface mountable
- Magnetically self shielded
- Nickel barrier plating virtually eliminates silver migration
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

Pb-free
RoHS COMPLIANT
HALOGEN FREE

MECHANICAL SPECIFICATIONS

Solderability: 90 % coverage after 5 s dip in 235 °C solder following 60 s preheat at 120 °C to 150 °C and type R flux dip

Resistance to Solder Heat: 10 s in 260 °C solder, after preheat and flux per above

Terminal Strength: 1.0 kg (2.2 lbs) minimum for 30 s

Beam Strength: 2.0 kg (4.4 lbs) minimum

ENVIRONMENTAL SPECIFICATIONS

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

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

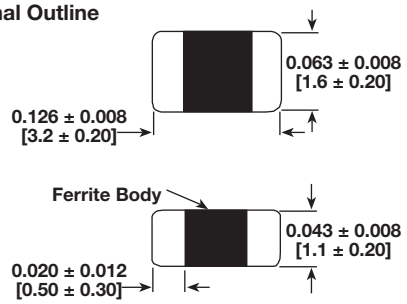
Biased Humidity: 85 % RH at 85 °C, 1000 h at full rated current

STANDARD ELECTRICAL SPECIFICATIONS

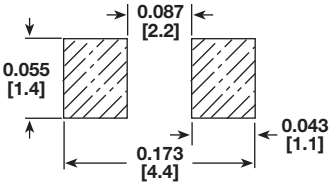
Z ± 25 % AT 100 MHz (Ω)	FREQUENCY (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
19	100	0.05	500
26	100	0.05	500
31	100	0.05	500
50	100	0.10	600
60	100	0.10	600
70	100	0.10	600
80	100	0.20	400
90	100	0.20	400
100	100	0.20	400
120	100	0.20	400
150	100	0.20	300
200	100	0.20	300
300	100	0.30	300
500	100	0.30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

DIMENSIONS in inches [millimeters]

Dimensional Outline



Recommended Pad Layout



PACKAGING OPTIONS

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

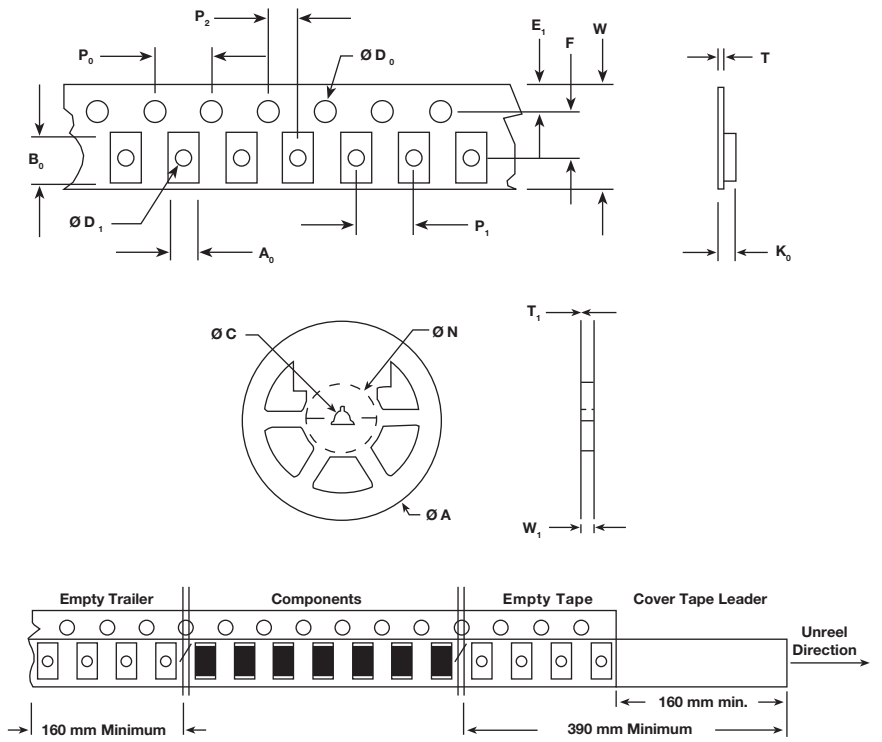
DESCRIPTION

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

GLOBAL PART NUMBER

I	L	B	1	2	0	6	E	R	1	9	0	V
PRODUCT FAMILY			SIZE				PACKAGE CODE		IMPEDANCE VALUE			IMPEDANCE TROLERANCE

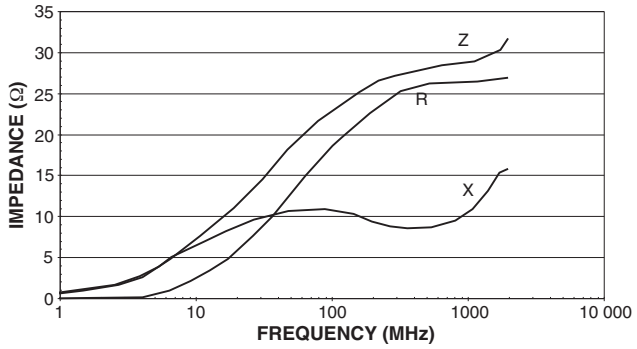
TAPE AND REEL SPECIFICATIONS in inches [millimeters]



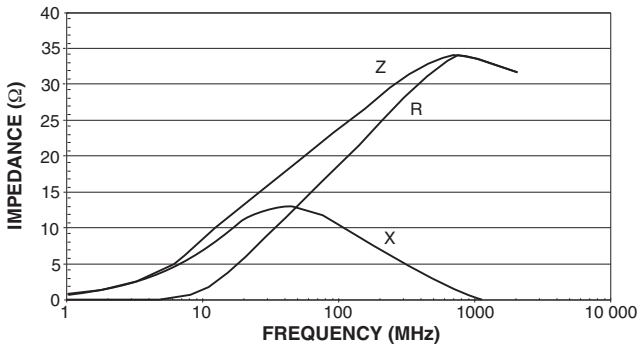
A_0	0.071 ± 0.008 [1.80 ± 0.2]
B_0	0.140 ± 0.006 [3.45 ± 0.15]
D_0	0.059 + 0.005/- 0.000 [1.5 + 0.127/- 0.0]
D_1	0.039 min. [1.0 min.]
E_1	0.069 ± 0.004 [1.75 ± 0.1]
F	0.138 ± 0.002 [3.50 ± 0.05]
K_0	0.049 ± 0.002 [1.24 ± 0.05]
P_0	0.157 ± 0.004 [4.00 ± 0.1]
P_1	0.157 ± 0.004 [4.00 ± 0.1]
P_2	0.079 ± 0.002 [2.00 ± 0.05]
W	0.327 max. [8.3 max.]
T	0.009 ± 0.002 [0.2 ± 0.05]
A	7.000 ± 0.079 [178 ± 2.0]
N	2.500 [63.5]
C	0.512 ± 0.020 [13.00 ± 0.5]
W_1	0.315 + 0.059/- 0.000 [8.00 + 1.5/- 0.0]
T_1	0.079 ± 0.002 [2.00 ± 0.05]

TYPICAL CURVES - Frequency Characteristics of R, X, and Z

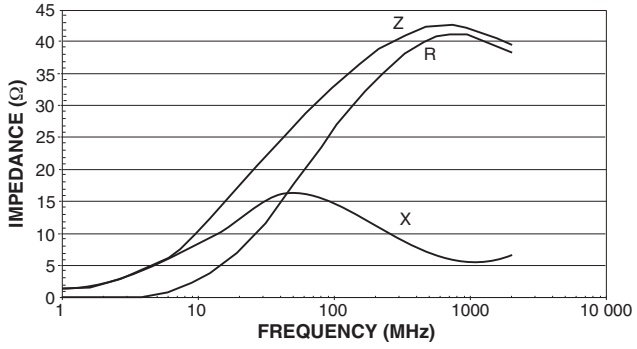
ILB-1206 19 Ω



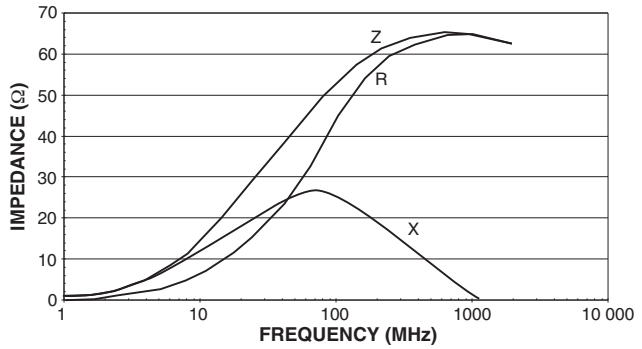
ILB-1206 26 Ω



ILB-1206 31 Ω

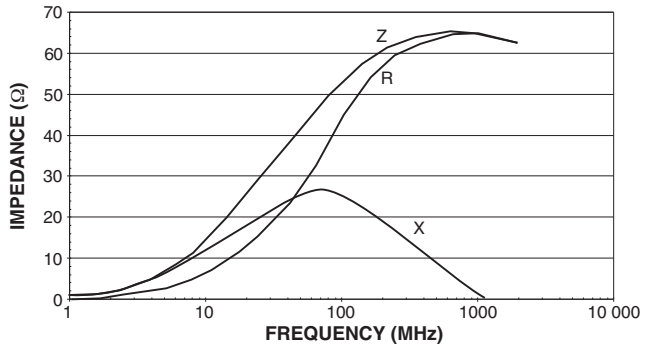


ILB-1206 50 Ω



TYPICAL CURVES - Frequency Characteristics of R, X, and Z

ILB-1206 60 Ω



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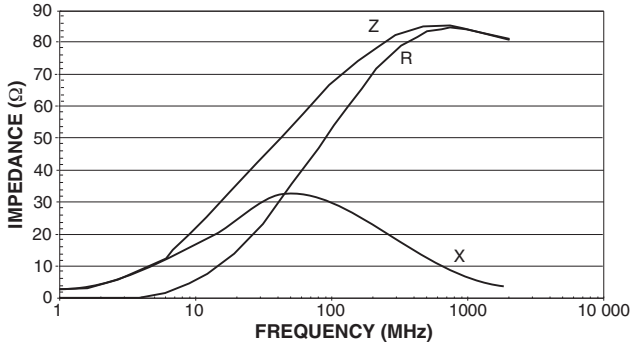
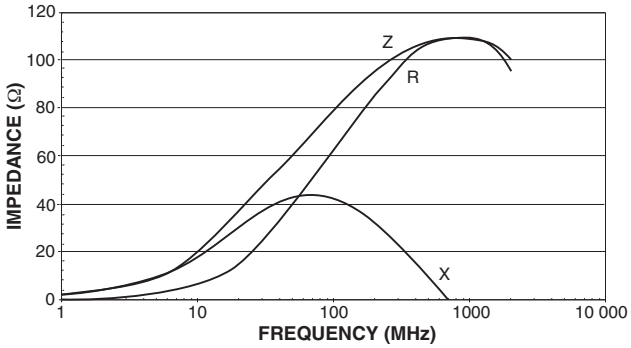
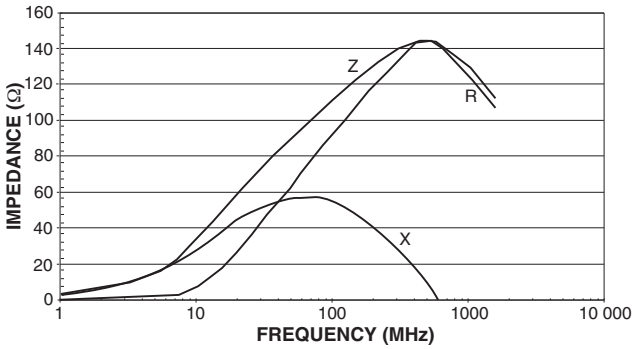


ILB-1206 80 Ω



ILB-1206 90 Ω



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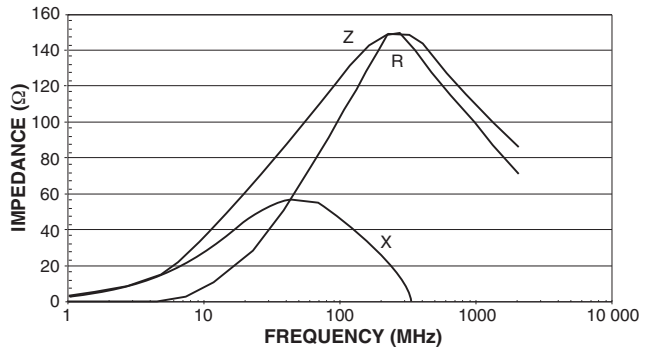

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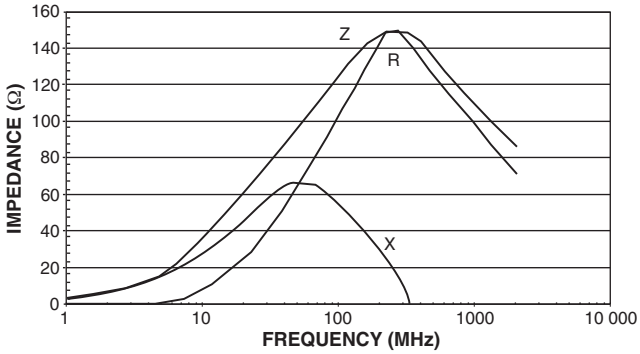

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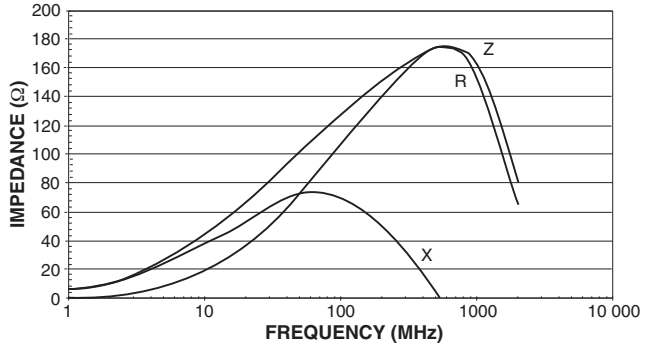

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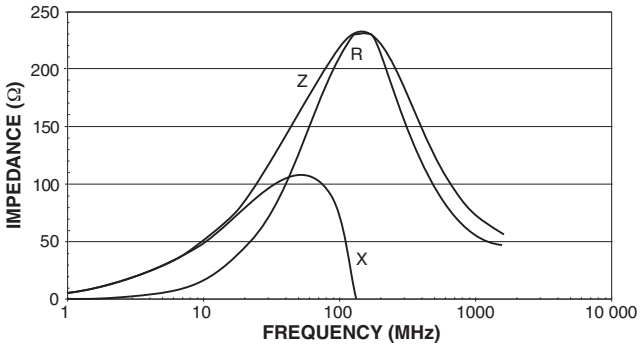
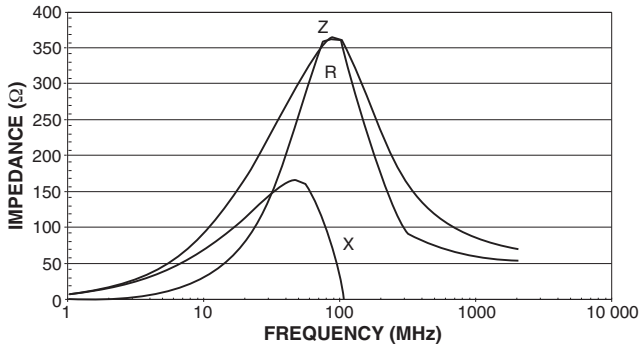


TYPICAL CURVES - Frequency Characteristics of R, X, and Z

ILB-1206 300 Ω



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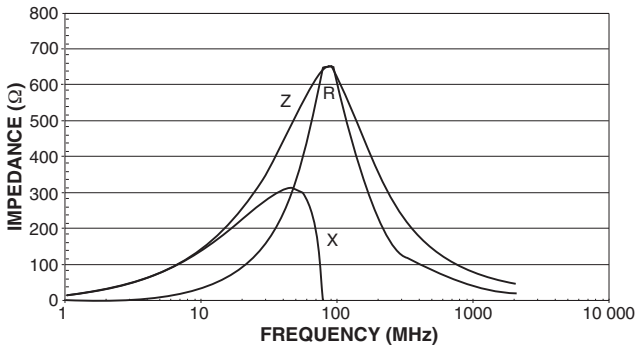

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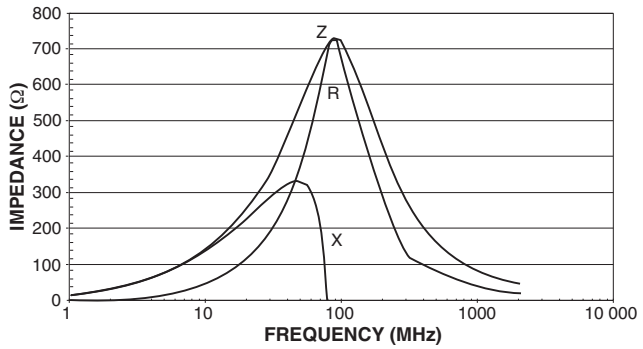

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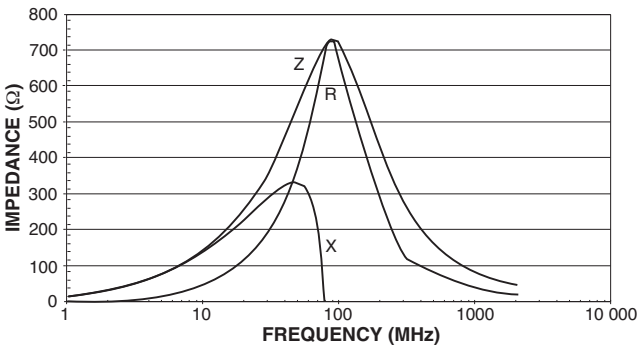

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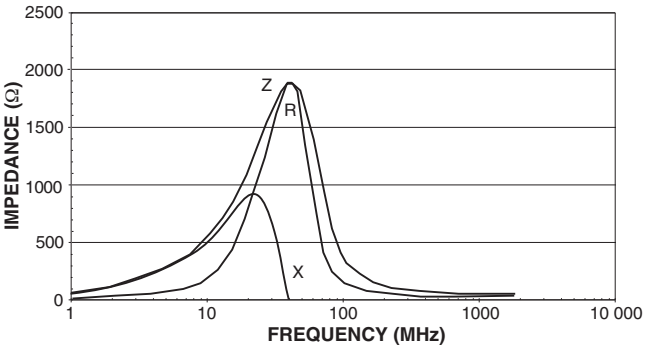

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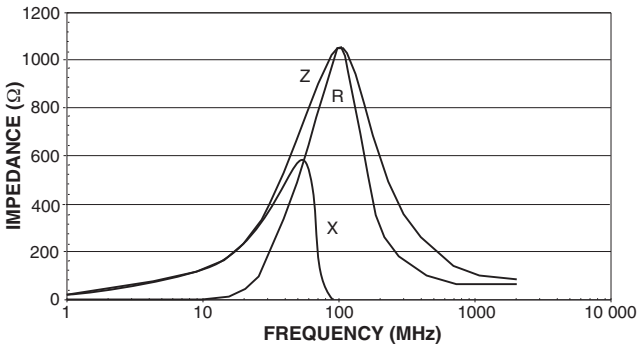

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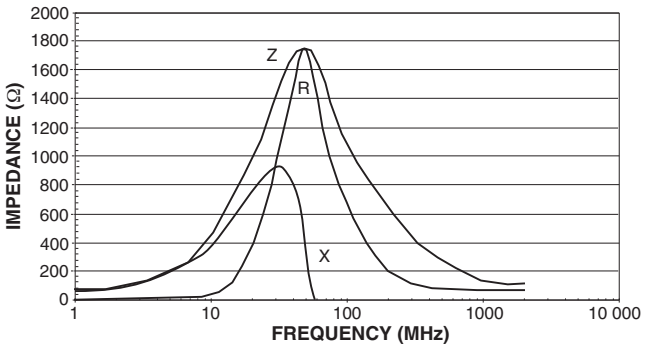

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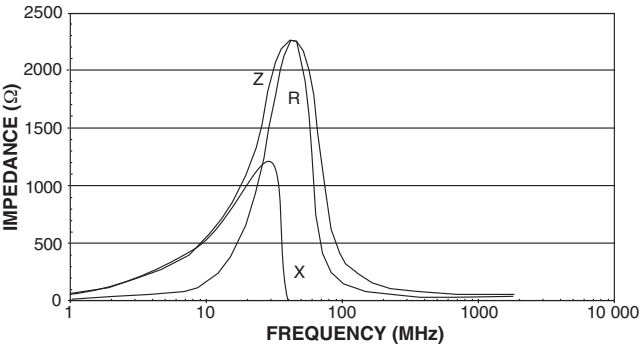

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