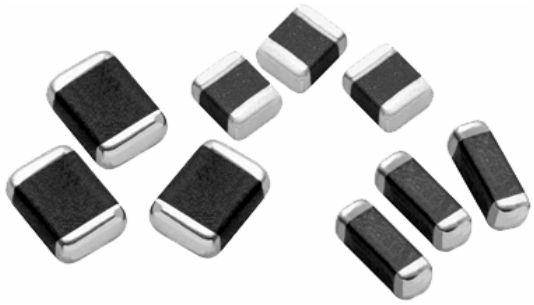
Multilayer Ferrite Beads



FEATURES

- High reliability
- Surface mountable (multiple case sizes)
- Magnetically self shielded
- Nickel barrier plating virtually eliminates silver migration
- Compliant to RoHS Directive 2011/65/EU
- 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: 1210: 1.0 kg (2.2 lbs), 1806: 1.0 kg (2.2 lbs), 1812: 1.5 kg (3.3 lbs) for 30 s

Beam Strength: 1210: 2.5 kg (5.5 lbs), 1806: 2.5 kg (5.5 lbs), 1812: 2.5 kg (5.5 lbs)

ENVIRONMENTAL SPECIFICATIONS

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

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

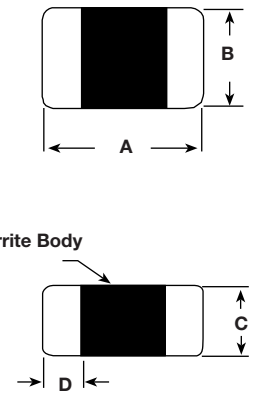
Biased Humidity: 85 % RH at 85 °C, 1000 h at full rated current

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	Z ± 25 % AT 100 MHz (Ω)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
ILBB-1210	31	0.30	400
	60	0.30	400
	90	0.30	400
ILBB-1806	80	0.30	400
	100	0.30	300
	150	0.50	200
ILBB-1812	70	0.40	200
	120	0.40	200

DIMENSIONS in inches [millimeters]

Dimensional Outline



SIZE	A	B	C	D
1210	0.126 ± 0.008 [3.2 ± 0.2]	0.098 ± 0.008 [2.5 ± 0.2]	0.051 ± 0.008 [1.3 ± 0.2]	0.020 ± 0.012 [0.5 ± 0.3]
1806	0.177 ± 0.010 [4.5 ± 0.25]	0.063 ± 0.008 [1.6 ± 0.2]	0.063 ± 0.008 [1.6 ± 0.2]	0.024 ± 0.016 [0.6 ± 0.4]
1812	0.177 ± 0.010 [4.5 ± 0.25]	0.126 ± 0.010 [3.2 ± 0.25]	0.059 ± 0.010 [1.5 ± 0.25]	0.024 ± 0.016 [0.6 ± 0.4]

DESCRIPTION

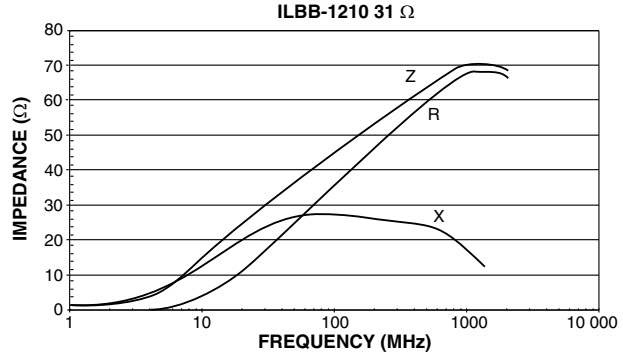
ILBB	1806	80	± 25 %	ER	e3
MODEL	SIZE	IMPEDANCE VALUE	IMPEDANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

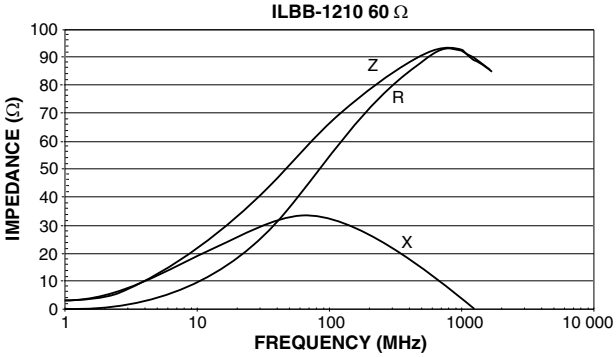
I	L	B	B	1	8	0	6	E	R	8	0	0	V
PRODUCT FAMILY				SIZE				PACKAGE CODE		IMPEDANCE VALUE			IMPEDANCE TOLERANCE

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

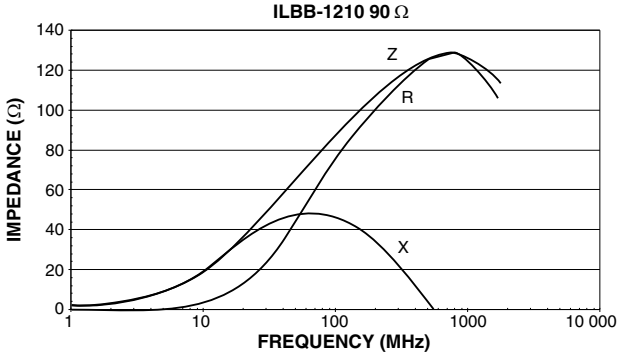
ILBB-1210 31 Ω



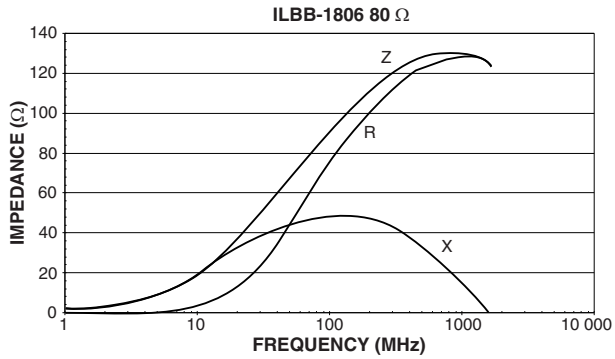
ILBB-1210 60 Ω



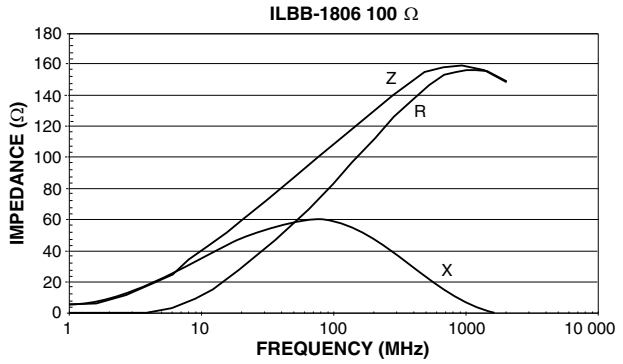
ILBB-1210 90 Ω



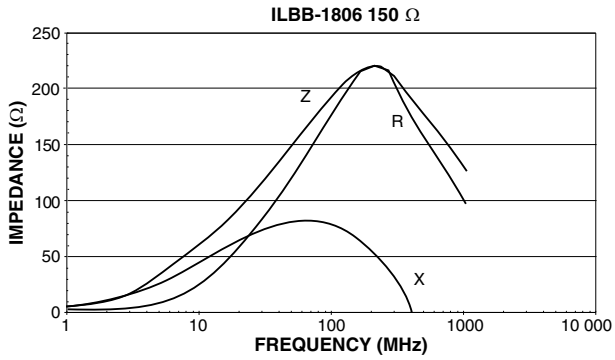
ILBB-1806 80 Ω



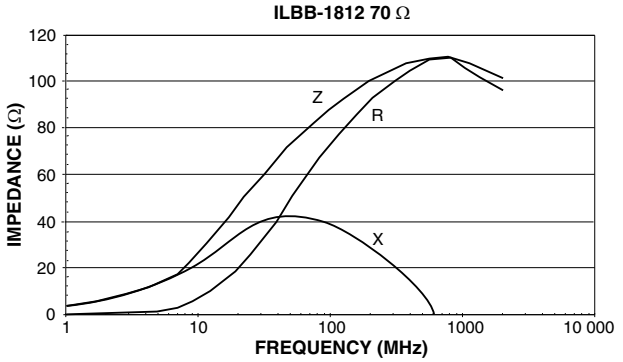
ILBB-1806 100 Ω



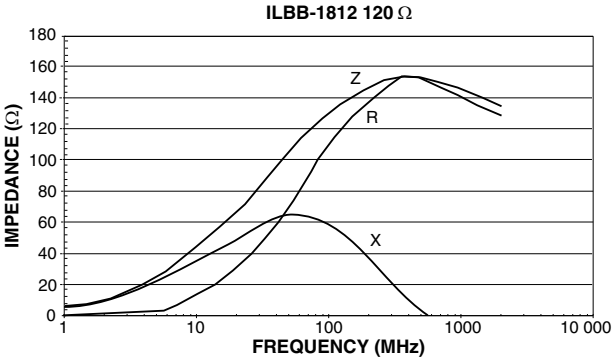
ILBB-1806 150 Ω



ILBB-1812 70 Ω



ILBB-1812 120 Ω



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