

High Current Multilayer Ferrite Beads



MECHANICAL SPECIFICATIONS

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

Resistance To Solder Heat: 10 seconds in 260 °C solder after preheat and flux per above

Terminal Strength: (0603) 0.3 kg, (0805) 0.6 kg, (1206) 1.0 kg, (1806) 1.0 kg, (1812) 1.5 kg for 30 seconds

FEATURES

- High reliability
- Surface mountable
- Current rating up to 6 amps
- Magnetically self shielded
- Nickel barrier plating virtually eliminates silver migration
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

Beam Strength: (0603) 0.3 kg, (0805) 1.0 kg, (1206) 2.0 kg, (1806) 2.5 kg, (1812) 2.5 kg

ENVIRONMENTAL SPECIFICATIONS

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

Thermal Shock: 100 cycles, - 40 °C to + 125 °C

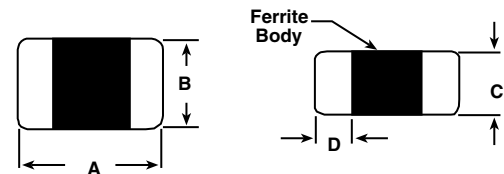
Biased Humidity: 85 % RH at 85 °C, 1000 hours at full rated current

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	IMPEDANCE (± 25 %)	IMPEDANCE FREQUENCY (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
ILHB-0603	60	100	0.10	2000
ILHB-0603	120	100	0.10	2000
ILHB-0805	30	100	0.015	6000
ILHB-0805	60	100	0.03	3000
ILHB-0805	90	100	0.025	5000
ILHB-0805	120	100	0.03	5000
ILHB-0805	250	100	0.04	3000
ILHB-0805	600	100	0.10	2000
ILHB-1206	50	100	0.02	6000
ILHB-1206	75	100	0.03	3000
ILHB-1206	120	100	0.02	6000
ILHB-1206	500	100	0.06	2500
ILHB-1206	600	100	0.10	2500
ILHB-1806	60	100	0.02	6000
ILHB-1812	120	100	0.02	6000
ILHB-1812	600	50	0.04	3000
ILHB-1812	1300	60	0.05	3000

DIMENSIONS in inches [millimeters]

Dimensional Outline



SIZE	A	B	C	D
0603	0.06 ± 0.006 [1.6 ± 0.15]	0.03 ± 0.006 [0.8 ± 0.15]	0.03 ± 0.006 [0.8 ± 0.15]	0.012 ± 0.008 [0.30 ± 0.20]
0805	0.079 ± 0.008 [2.0 ± 0.2]	0.049 ± 0.008 [1.25 ± 0.2]	0.035 ± 0.008 [0.9 ± 0.2]	0.02 ± 0.012 [0.50 ± 0.30]
1206	0.126 ± 0.008 [3.2 ± 0.2]	0.063 ± 0.008 [1.6 ± 0.2]	0.043 ± 0.008 [1.1 ± 0.2]	0.02 ± 0.012 [0.50 ± 0.30]
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 [0.60 ± 0.40]
1812	0.177 ± 0.010 [4.5 ± 0.25]	0.126 ± 0.010 [3.2 ± 0.25]	0.06 ± 0.01 [1.5 ± 0.25]	0.024 ± 0.016 [0.60 ± 0.40]

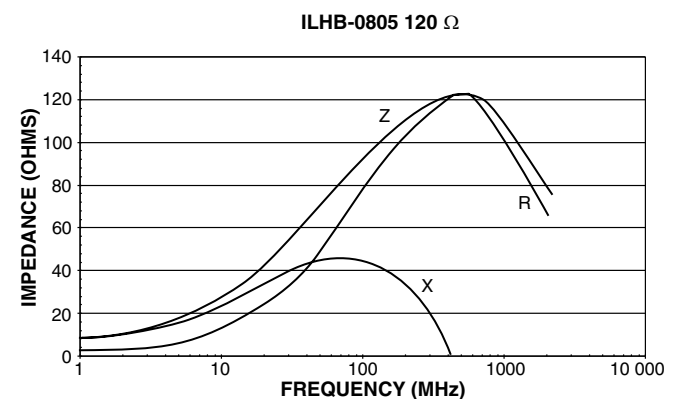
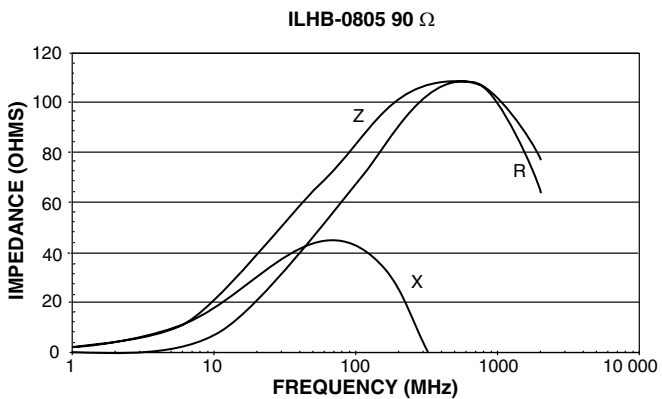
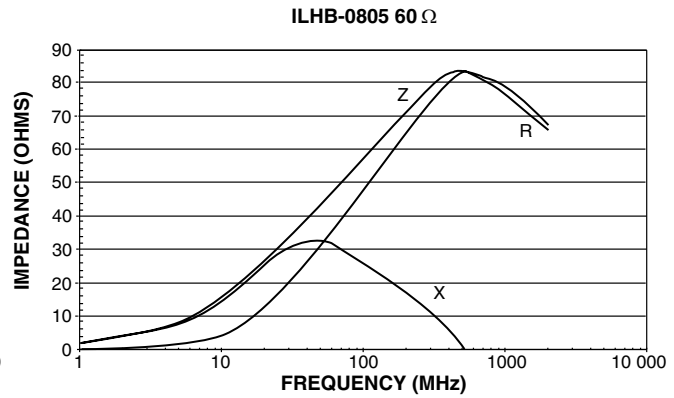
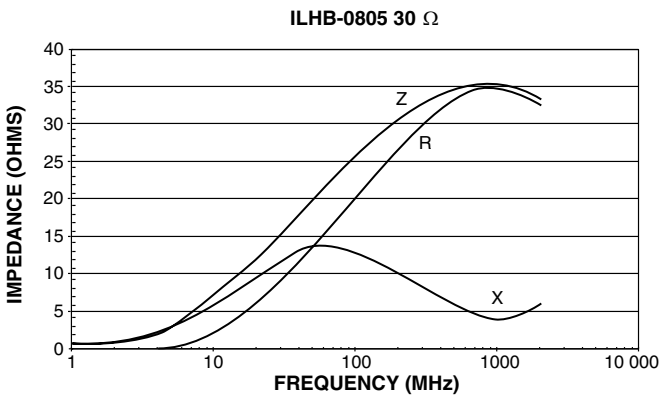
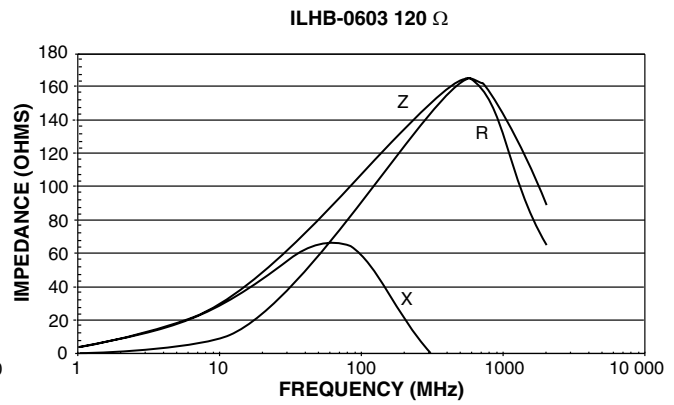
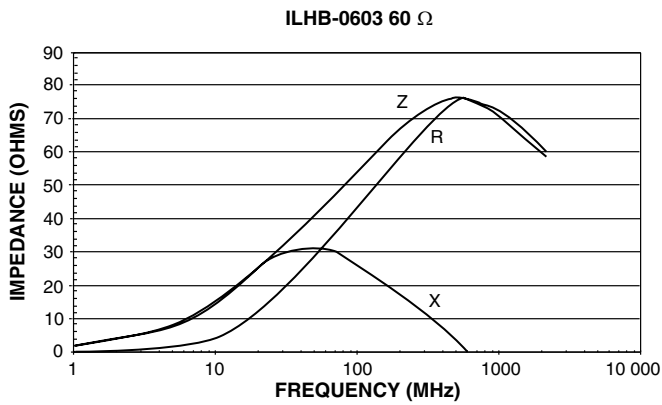
DESCRIPTION

ILHB	1206	120	± 25 %	ER	e3
MODEL	SIZE	IMPEDANCE VALUE	IMPEDANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

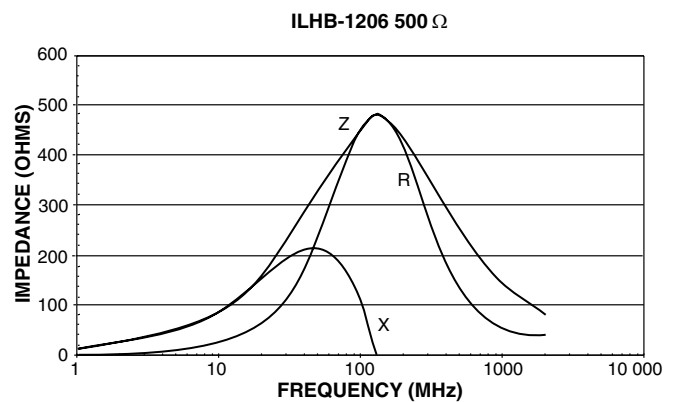
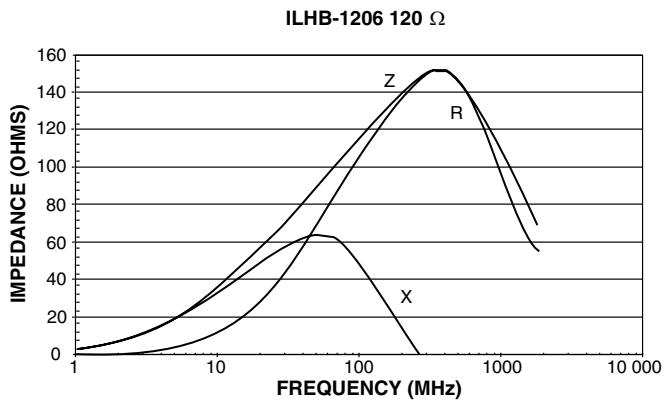
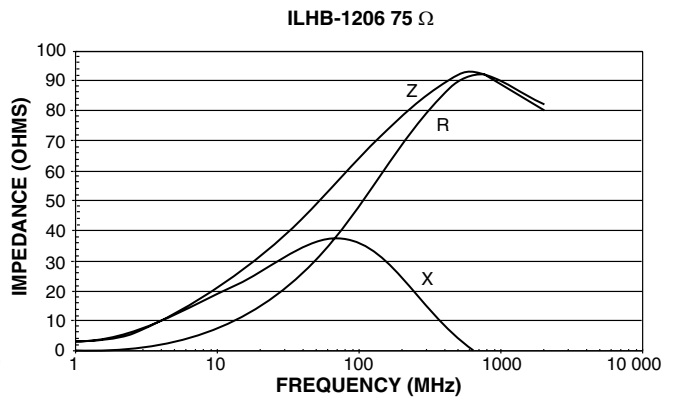
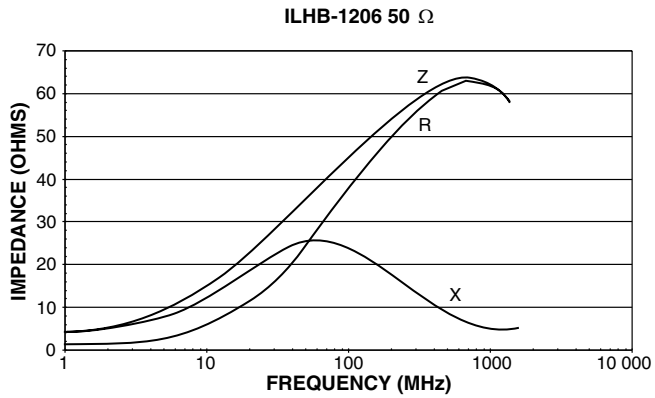
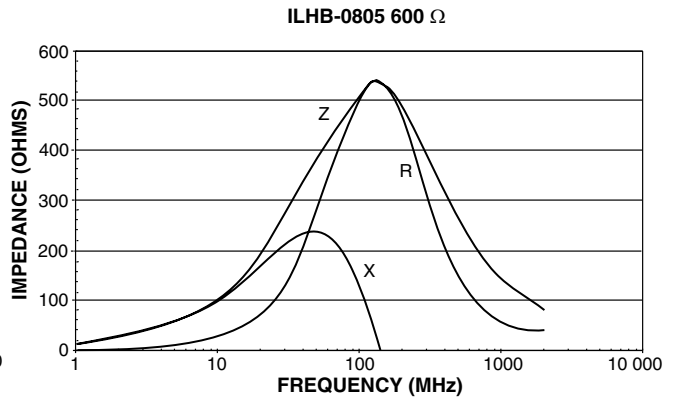
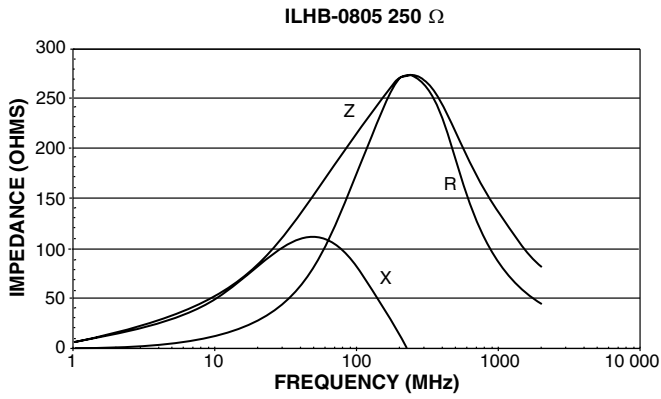
GLOBAL PART NUMBER

I	L	H	B	1	2	0	6	E	R	1	2	1	V
MODEL				SIZE				PACKAGE CODE		IMPEDANCE VALUE			IMPEDANCE TOLERANCE

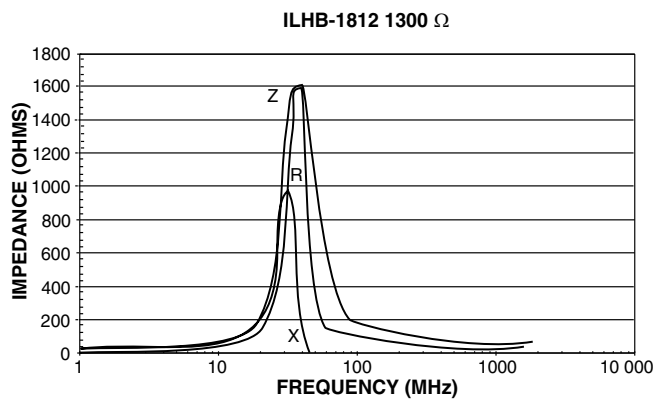
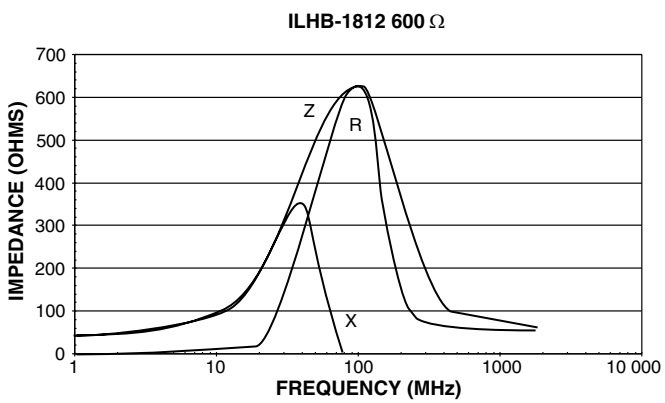
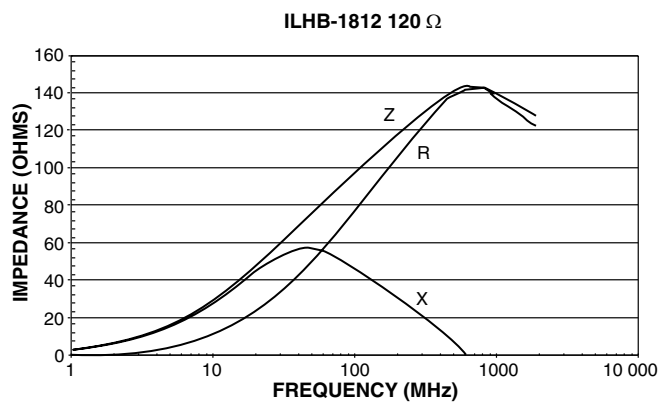
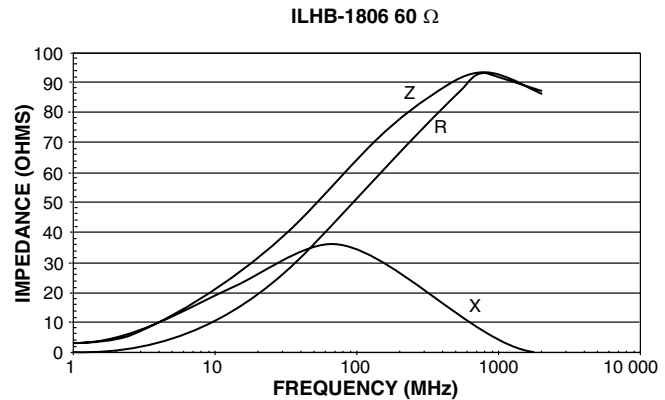
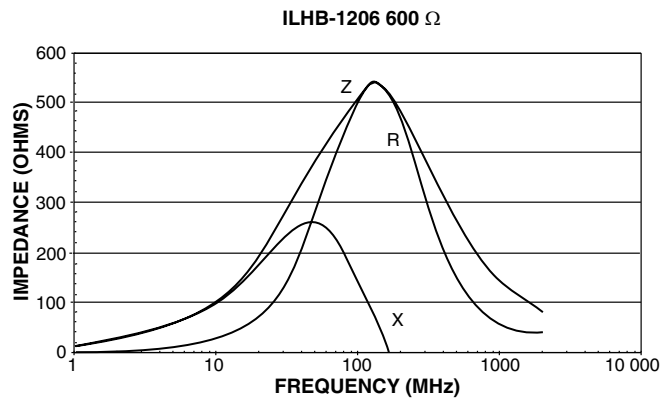
TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF R, X AND Z



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