

Surface Mount, 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



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: 0.2 kg for 30 seconds

Beam Strength: 0.2 kg

Flex: 0.2 mm minimum mounted on a 1.6 mm thick PC board

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		
Z AT 100 MHz (± 25 %)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
20	0.13	300
30	0.20	300
40	0.20	300
60	0.30	300
70	0.30	300
120	0.45	300
240	0.70	200
300	0.80	200
600	1.00	200

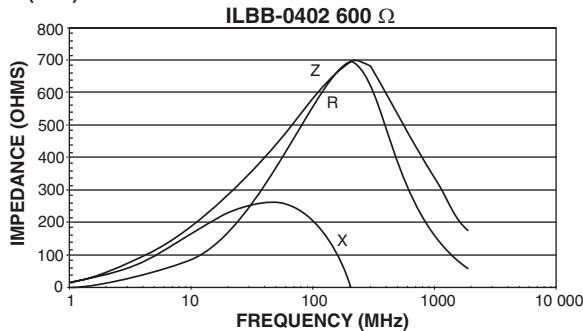
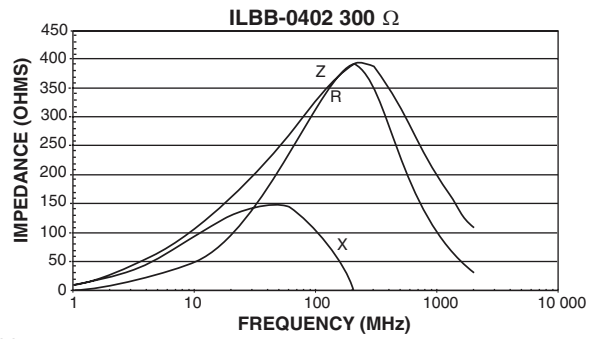
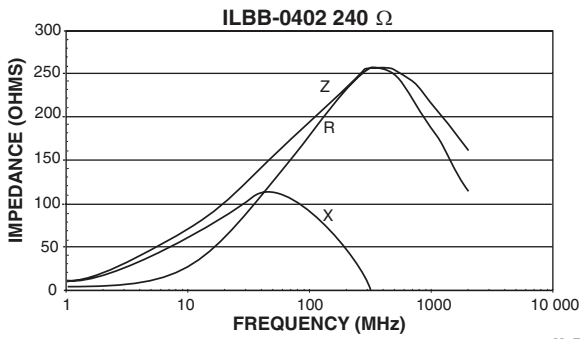
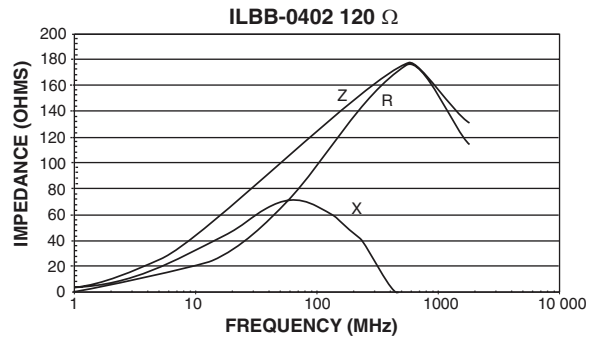
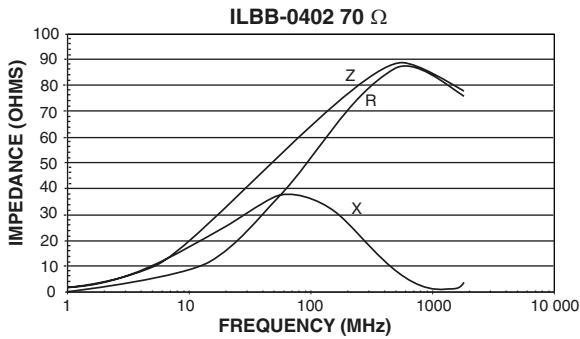
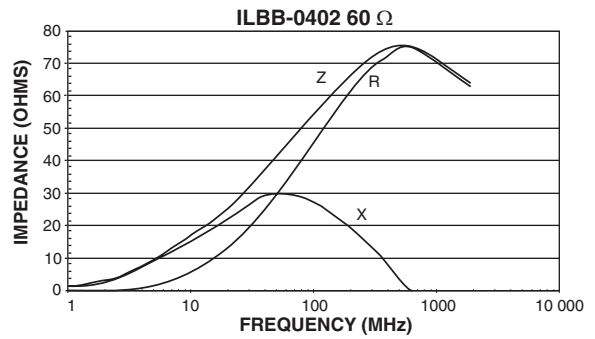
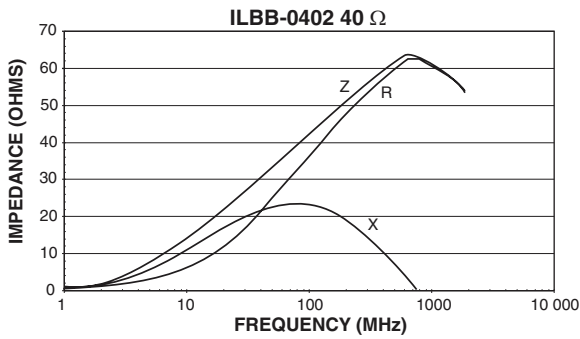
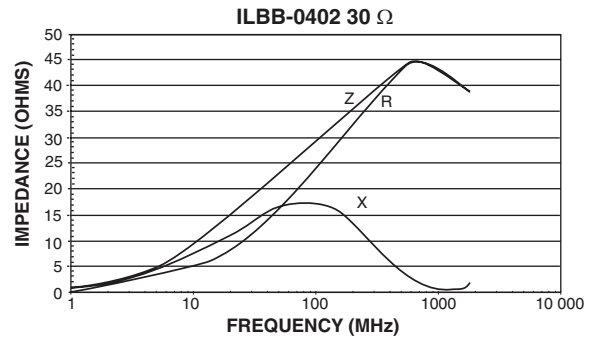
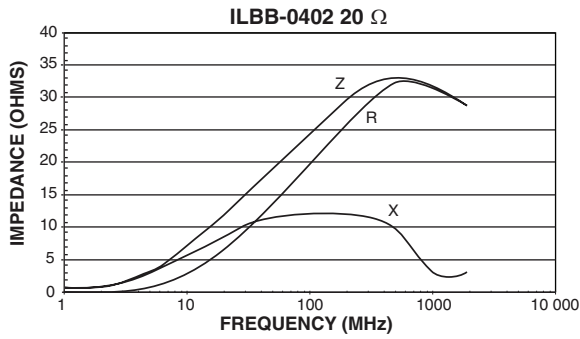
DIMENSIONS in inches [millimeters]			
A	B	C	D
0.04 ± 0.004 [1.0 ± 0.1]	0.02 ± 0.004 [0.5 ± 0.1]	0.02 ± 0.004 [0.5 ± 0.1]	0.01 ± 0.004 [0.25 ± 0.1]

DESCRIPTION				
ILBB-0402	120	± 25 %	ER	e3
MODEL	IMPEDANCE VALUE	IMPEDANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER				
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">I</div> <div style="border: 1px solid black; padding: 2px;">L</div> <div style="border: 1px solid black; padding: 2px;">B</div> <div style="border: 1px solid black; padding: 2px;">B</div> </div> <p>PRODUCT FAMILY</p>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">0</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">0</div> <div style="border: 1px solid black; padding: 2px;">2</div> </div> <p>SIZE</p>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">E</div> <div style="border: 1px solid black; padding: 2px;">R</div> </div> <p>PACKAGE CODE</p>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> </div> <p>IMPEDANCE VALUE</p>	<div style="border: 1px solid black; padding: 2px; width: 20px; margin: 0 auto;">V</div> <p>IMPEDANCE TOLERANCE</p>



TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF R, X AND Z





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