

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 |

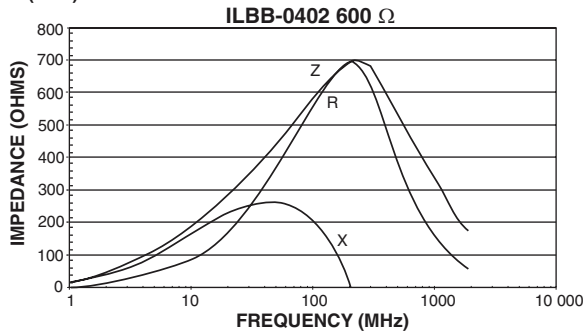
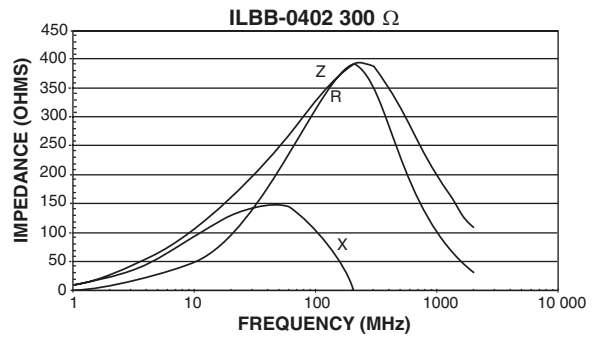
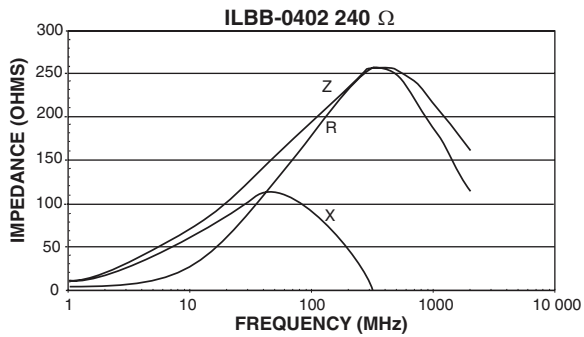
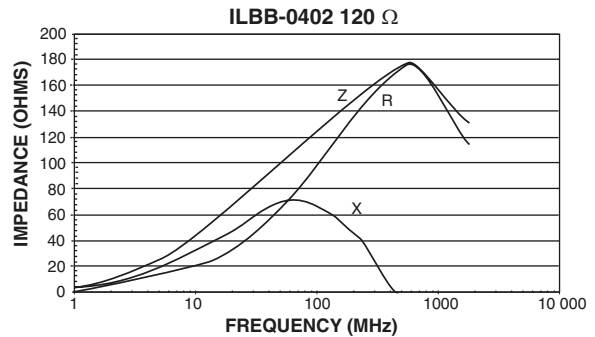
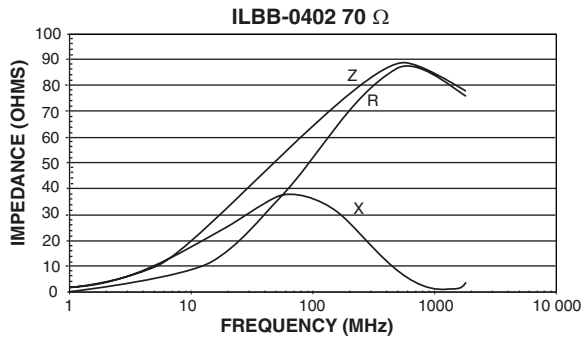
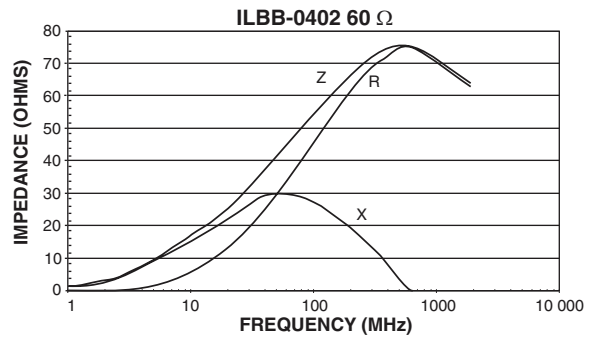
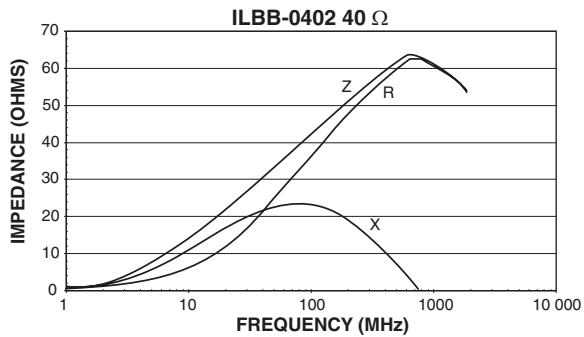
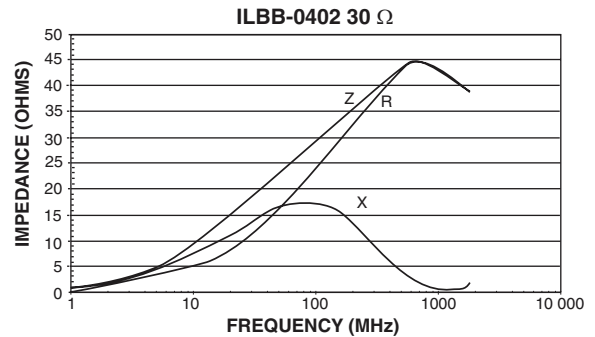
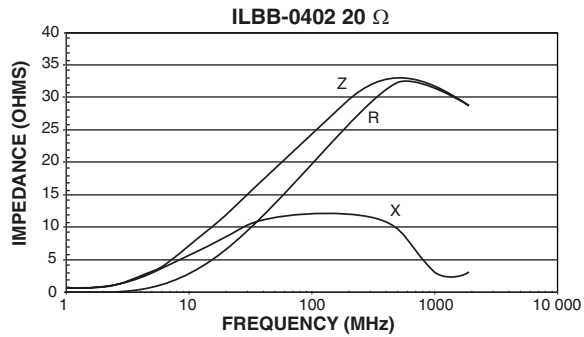
| DIMENSIONS in inches [millimeters] | | | |
|------------------------------------|-----------------------------|-----------------------------|------------------------------|
| | | | |
| A | B | C | D |
| 0.04 ± 0.004 [1.0 ± 0.1] | 0.02 ± 0.004 [0.5 ± 0.1] | 0.02 ± 0.004 [0.5 ± 0.1] | 0.01 ± 0.004 [0.25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

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

| GLOBAL PART NUMBER | | | | |
|--------------------|---------|--------------|-----------------|---------------------|
| I L B B | 0 4 0 2 | E R | 1 2 1 | V |
| PRODUCT FAMILY | SIZE | PACKAGE CODE | IMPEDANCE VALUE | IMPEDANCE TOLERANCE |



TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF R, X AND Z





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