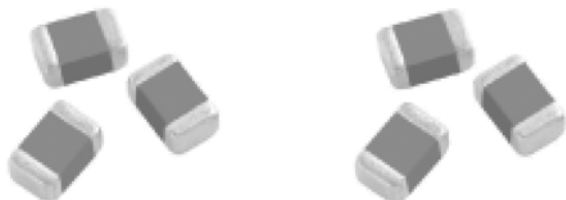


## Multilayer Ferrite Beads



### 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:** 0.2 kg (0.44 lbs) minimum for 30 s

**Beam Strength:** 0.2 kg (0.44 lbs) minimum

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

### STANDARD ELECTRICAL SPECIFICATIONS

| Z<br>± 25 % AT 100 MHz<br>(Ω) | DCR MAX.<br>(Ω) | RATED<br>DC CURRENT<br>(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                         |

### 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



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

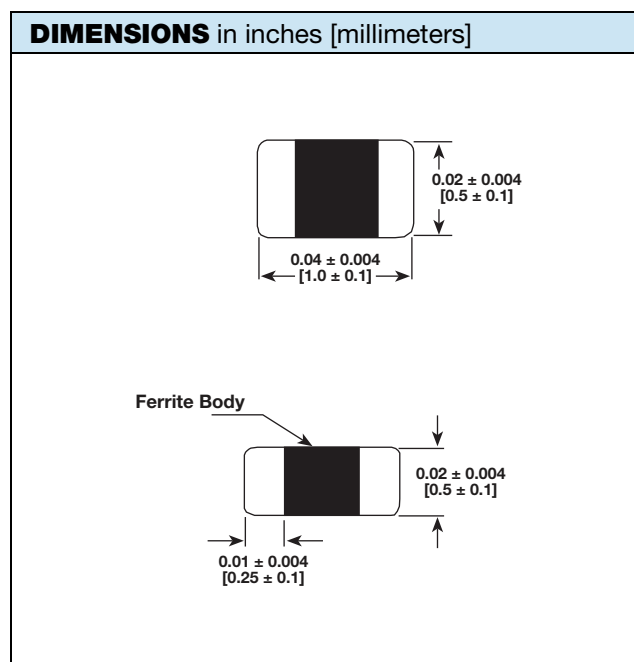
### ENVIRONMENTAL SPECIFICATIONS

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

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

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

### DIMENSIONS in inches [millimeters]



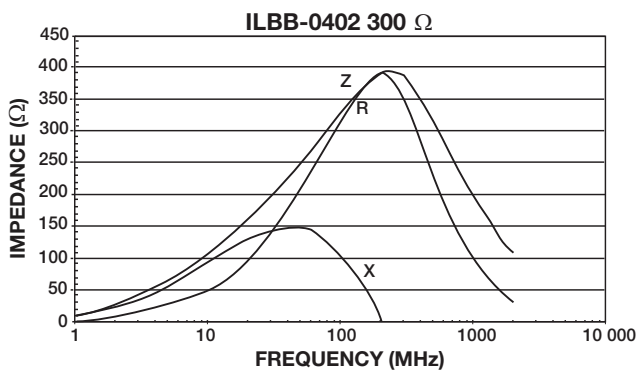
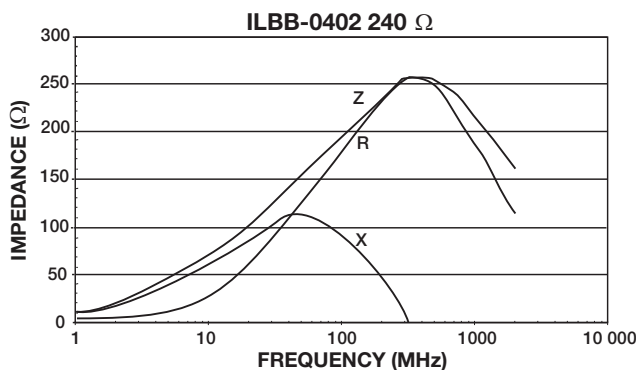
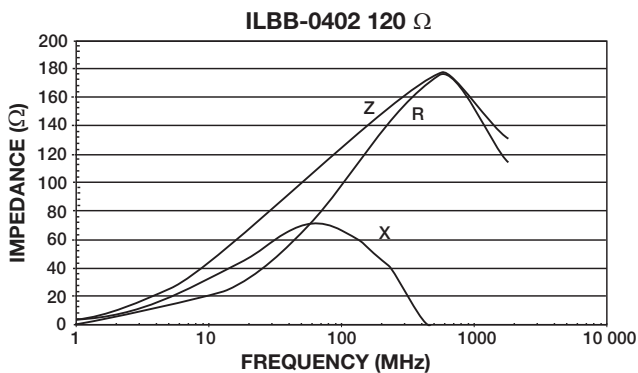
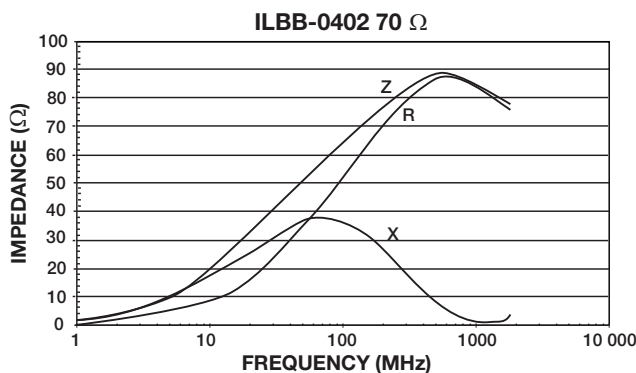
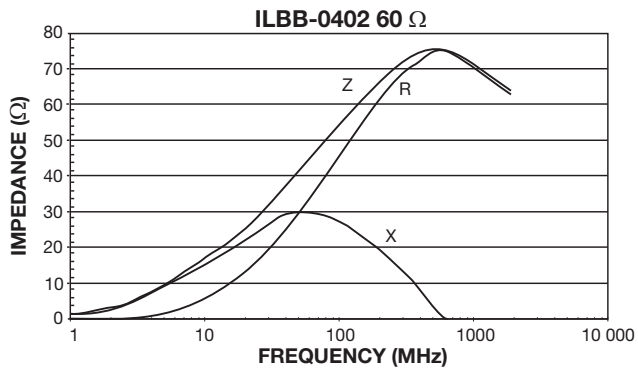
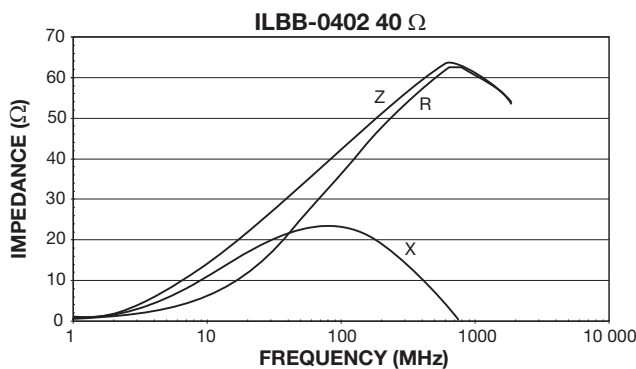
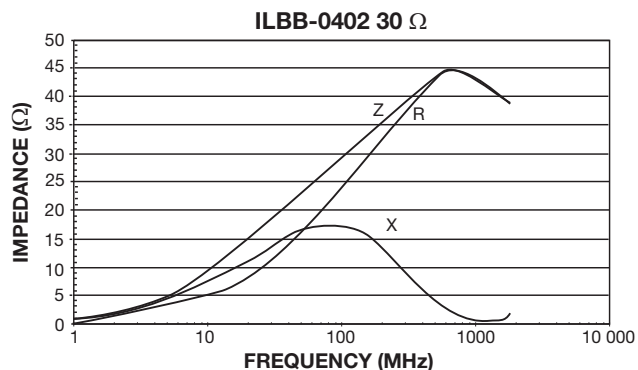
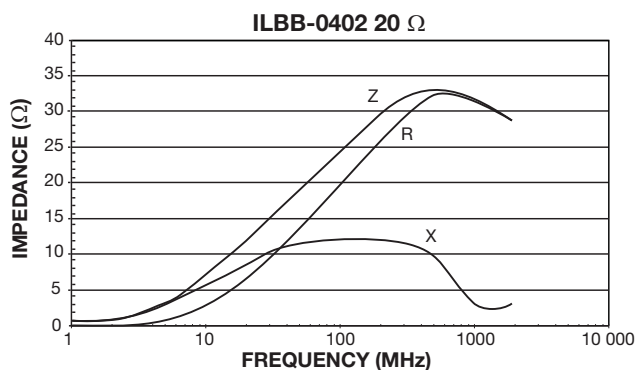
### DESCRIPTION

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

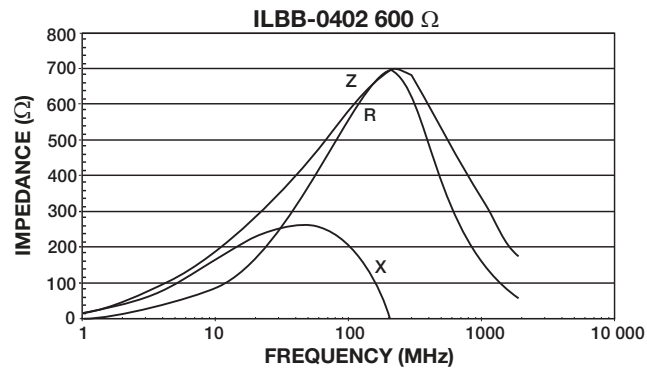
### GLOBAL PART NUMBER

|                |   |   |   |      |   |   |   |              |   |                 |   |   |                     |
|----------------|---|---|---|------|---|---|---|--------------|---|-----------------|---|---|---------------------|
| 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



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





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