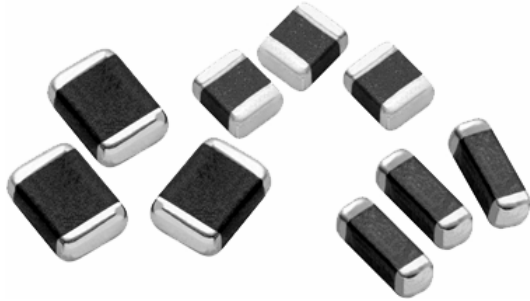


## Multilayer Ferrite Beads



### 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:** 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)

| STANDARD ELECTRICAL SPECIFICATIONS |                               |                 |                             |
|------------------------------------|-------------------------------|-----------------|-----------------------------|
| PART NUMBER                        | Z<br>± 25 % AT 100 MHz<br>(Ω) | DCR MAX.<br>(Ω) | RATED<br>DC CURRENT<br>(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                         |
| ILBB-1812                          | 150                           | 0.50            | 200                         |
|                                    | 70                            | 0.40            | 200                         |
|                                    | 120                           | 0.40            | 200                         |

### 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



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

### ENVIRONMENTAL SPECIFICATIONS

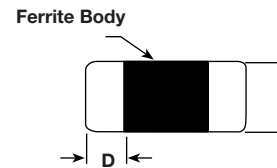
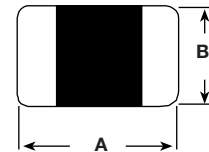
**Operating Temperature:** - 55 °C to + 125 °C

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

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

### DIMENSIONS in inches [millimeters]

#### Dimensional Outline



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

### DESCRIPTION

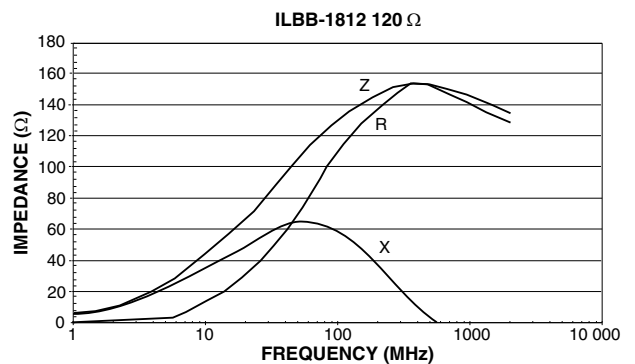
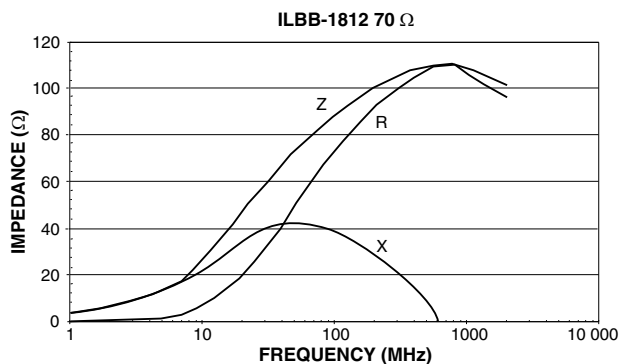
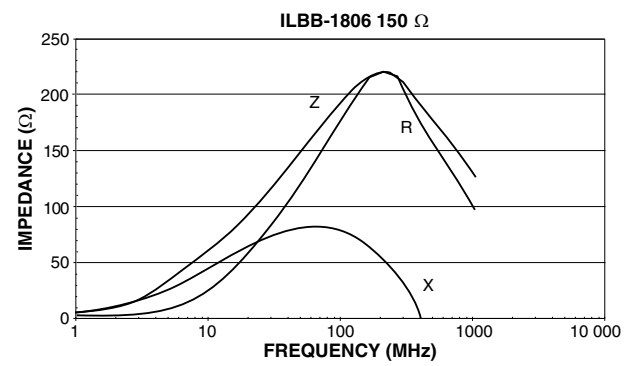
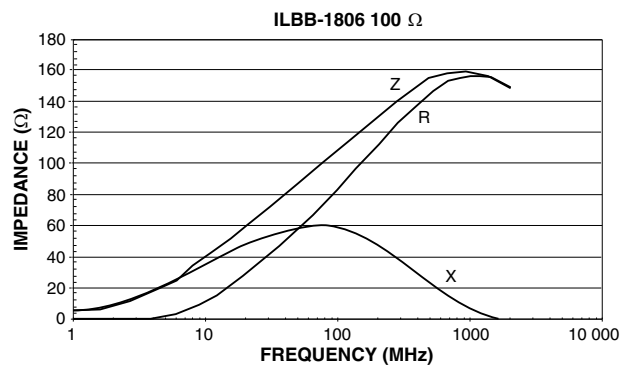
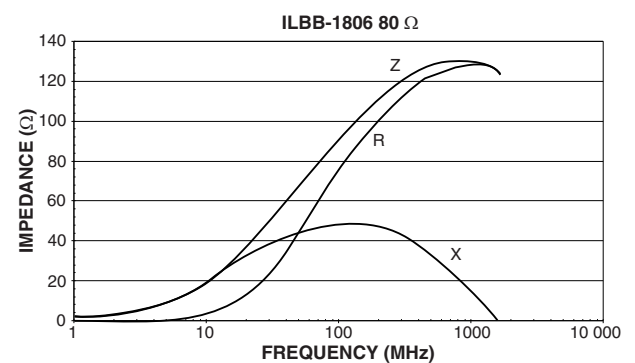
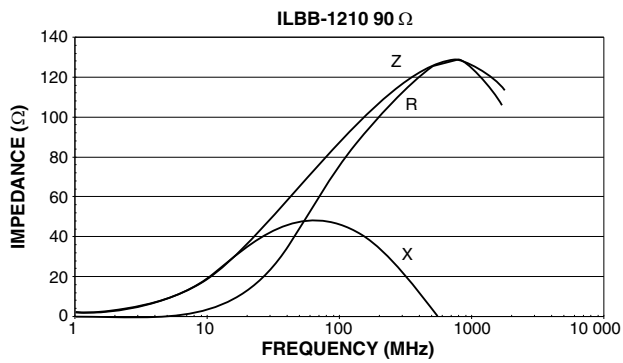
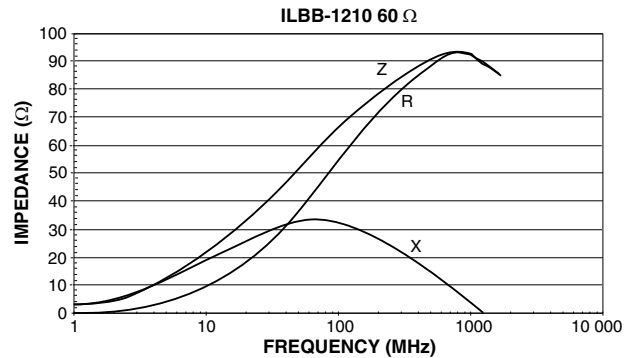
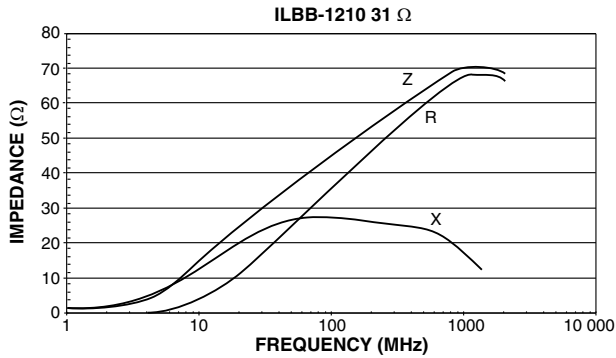
| ILBB  | 1806 | 80              | ± 25 %              | ER           | e3                            |
|-------|------|-----------------|---------------------|--------------|-------------------------------|
| MODEL | SIZE | IMPEDANCE VALUE | IMPEDANCE TOLERANCE | PACKAGE CODE | JEDEC LEAD (Pb)-FREE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





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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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