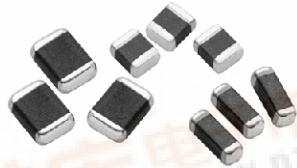




# ILBB-1210, 1806, 1812

Vishay Dale

## 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:** (1210) 1.0 kg, (1806) 1.0 kg, (1812) 1.5 kg for 30 seconds

**Beam Strength:** (1210) 2.5 kg, (1806) 2.5 kg, (1812) 2.5 kg

### ENVIRONMENTAL SPECIFICATIONS

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

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

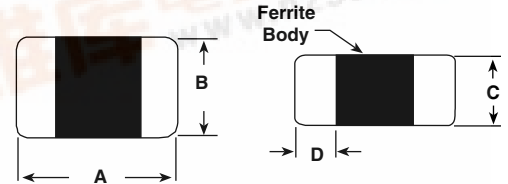
**Biased Humidity:** 85 % RH at 85 °C, 1000 hours at full rated current

### STANDARD ELECTRICAL SPECIFICATIONS

| PART NUMBER | Z at 100 MHz (± 25 %) | DCR MAX. (Ohms) | RATED DC CURRENT (mA) |
|-------------|-----------------------|-----------------|-----------------------|
| ILBB-1210   | 31                    | 0.30            | 400                   |
| ILBB-1210   | 60                    | 0.30            | 400                   |
| ILBB-1210   | 90                    | 0.30            | 400                   |
| ILBB-1806   | 80                    | 0.30            | 400                   |
| ILBB-1806   | 100                   | 0.30            | 300                   |
| ILBB-1806   | 150                   | 0.50            | 200                   |
| ILBB-1812   | 70                    | 0.40            | 200                   |
| ILBB-1812   | 120                   | 0.40            | 200                   |

### 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 ± 0.02] | 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                   |
| MODEL |   |   |   | SIZE |   |   |   | PACKAGE CODE |   | IMPEDANCE VALUE |   |   | IMPEDANCE TOLERANCE |

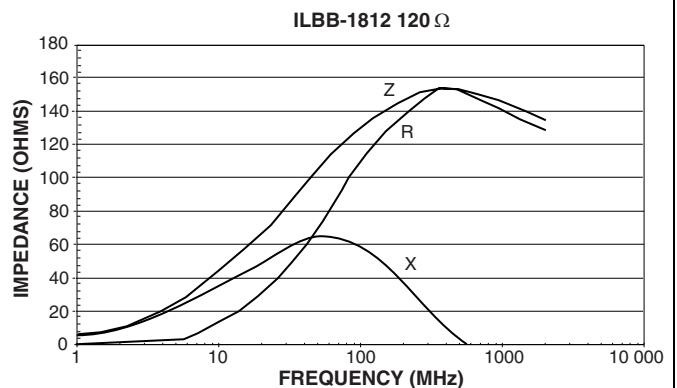
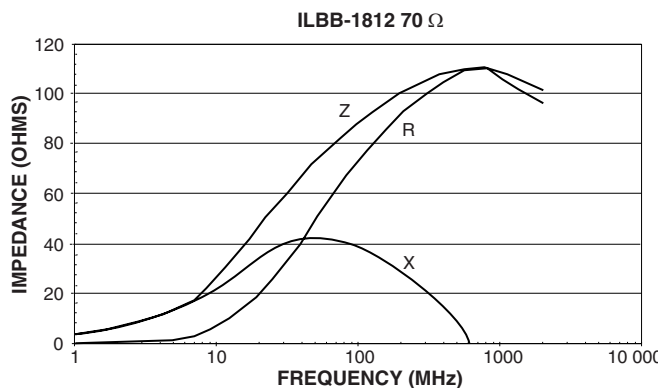
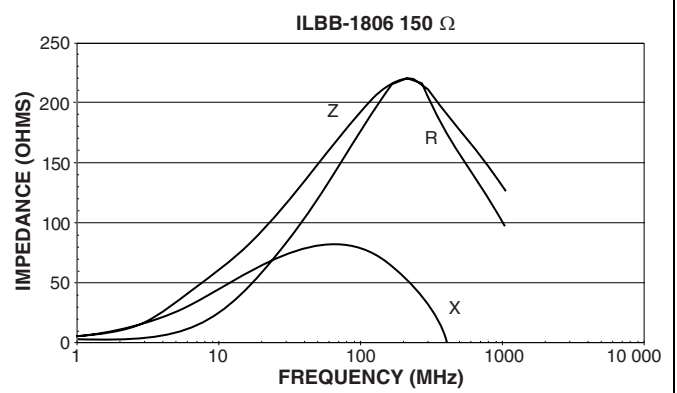
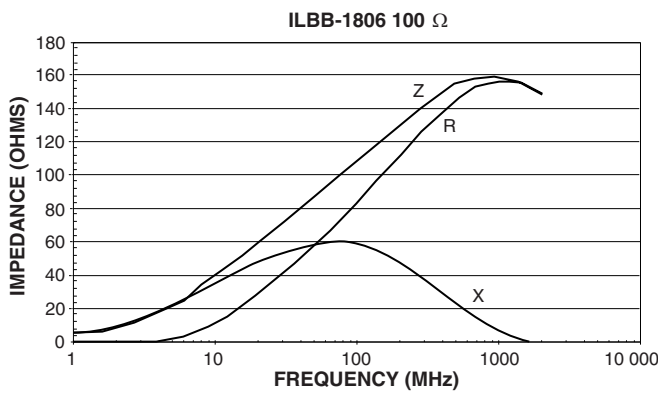
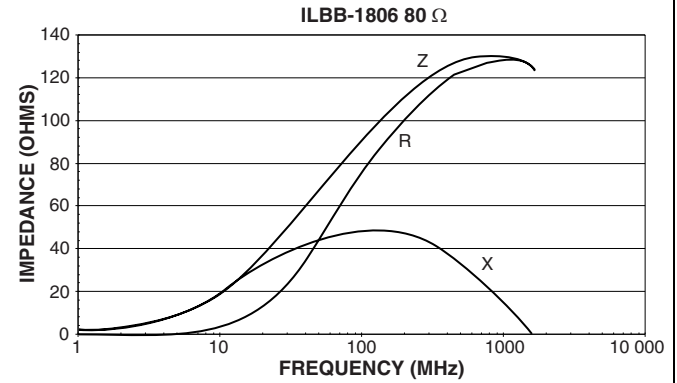
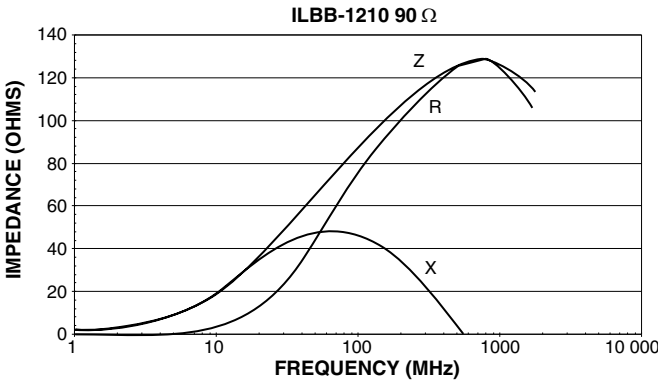
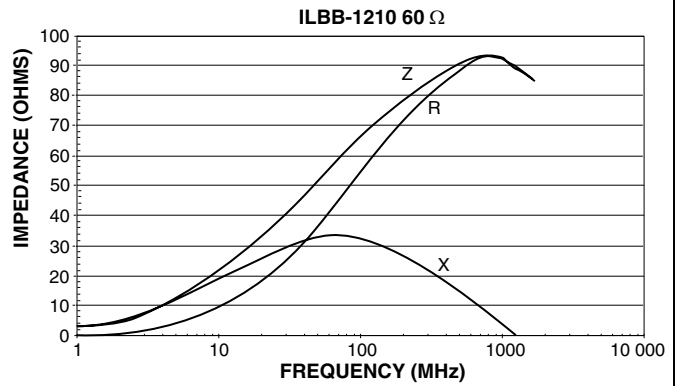
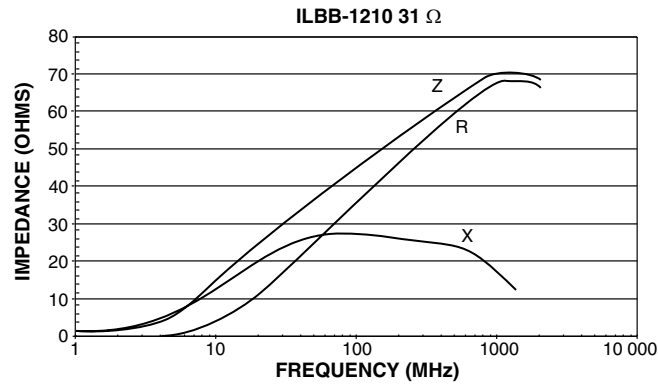
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## TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R





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