

## **High Current Multilayer Ferrite Beads**



### **MECHANICAL SPECIFICATIONS**

**Solderability:** 90 % coverage after 5 s dip in 235 °C solder following 60 s preheat at 120 °C type R flux dip

Resistance to Solder Heat: 10 s in 260 °C solder, after preheat and flux per above

**Terminal Strength:** 0603: 0.3 kg (0.66 lbs), 0805: 0.6 kg (1.3 lbs), 1206: 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:** 0603: 0.3 kg (0.66 lbs), 0805: 1.0 kg (2.2 lbs), 1206: 2.0 kg (4.4 lbs), 1806: 2.5 kg (5.5 lbs), 1812: 2.5 kg (5.5 lbs)

#### **FEATURES**

- · High reliability
- Surface mountable (multiple case sizes)
- Current rating up to 6 A
- Magnetically self shielded
- Nickel barrier plating virtually eliminates silver migration
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912"><u>www.vishav.com/doc?99912</u></a>

# Pb-free

RoHS COMPLIANT HALOGEN

FREE

### **ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature: -55 °C to +125 °C Thermal Shock: 100 cycles, -40 °C to +125 °C

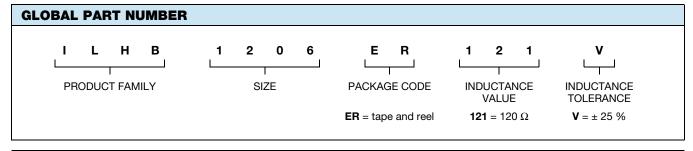
Biased Humidity: 85 % RH at 85 °C, 1000 h at full rated

current

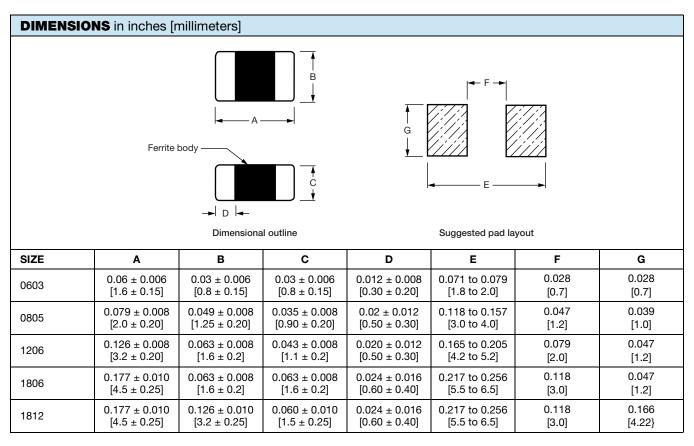
Voltage Rating: 100 V

| STANDARD ELECTRICAL SPECIFICATIONS |                 |                         |                 |                       |  |  |  |
|------------------------------------|-----------------|-------------------------|-----------------|-----------------------|--|--|--|
| PART NUMBER                        | Z ± 25 %<br>(Ω) | TEST FREQUENCY<br>(MHz) | DCR MAX.<br>(Ω) | RATED DC CURRENT (mA) |  |  |  |
| ILHB0603ER600V                     | 60              | 100                     | 0.04            | 3000                  |  |  |  |
| ILHB0603ER121V                     | 120             | 100                     | 0.04            | 3000                  |  |  |  |
| ILHB0805ER300V                     | 30              | 100                     | 0.015           | 6000                  |  |  |  |
| ILHB0805ER600V                     | 60              | 100                     | 0.040           | 3000                  |  |  |  |
| ILHB0805ER900V                     | 90              | 100                     | 0.020           | 5000                  |  |  |  |
| ILHB0805ER121V                     | 120             | 100                     | 0.020           | 5000                  |  |  |  |
| ILHB0805ER251V                     | 250             | 100                     | 0.040           | 3000                  |  |  |  |
| ILHB0805ER601V                     | 600             | 100                     | 0.090           | 2000                  |  |  |  |
| ILHB1206ER500V                     | 50              | 100                     | 0.015           | 6000                  |  |  |  |
| ILHB1206ER750V                     | 75              | 100                     | 0.040           | 3000                  |  |  |  |
| ILHB1206ER121V                     | 120             | 100                     | 0.015           | 6000                  |  |  |  |
| ILHB1206ER501V                     | 500             | 100                     | 0.070           | 2500                  |  |  |  |
| ILHB1206ER601V                     | 600             | 100                     | 0.070           | 2500                  |  |  |  |
| ILHB1806ER600V                     | 60              | 100                     | 0.015           | 6000                  |  |  |  |
| ILHB1812ER121V                     | 120             | 100                     | 0.015           | 6000                  |  |  |  |
| ILHB1812ER601V                     | 600             | 50                      | 0.04            | 3000                  |  |  |  |
| ILHB1812ER132V                     | 1300            | 60                      | 0.04            | 3000                  |  |  |  |

| DESCRIPTION |      |                  |                      |              |                                |  |  |
|-------------|------|------------------|----------------------|--------------|--------------------------------|--|--|
| ILHB        | 1206 | <b>120</b> Ω     | ± 25 %               | ER           | e3                             |  |  |
| MODEL       | SIZE | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |  |  |

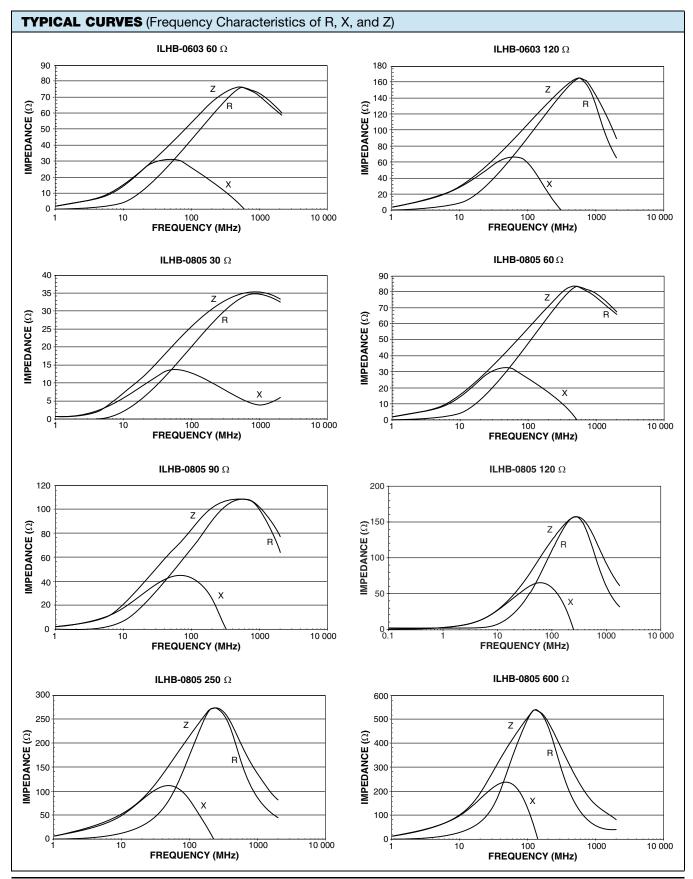


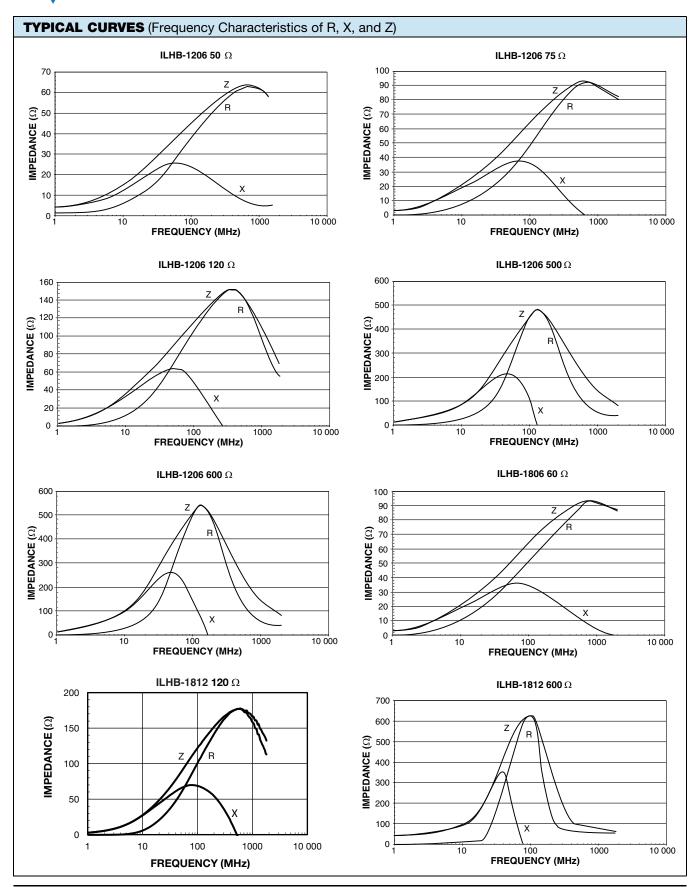




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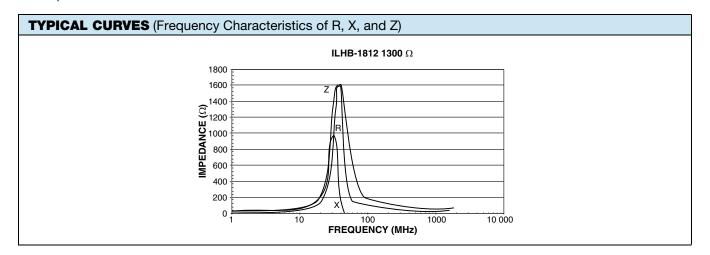








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