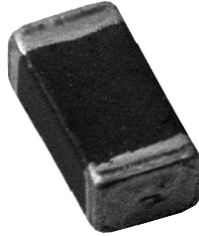


Multilayer Ferrite Beads



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: 1.0 kg (2.2 lbs) minimum for 30 s

Beam Strength: 2.0 kg (4.4 lbs) minimum

STANDARD ELECTRICAL SPECIFICATIONS

| Z ± 25 % AT 100 MHz (Ω) | FREQUENCY (MHz) | DCR MAX. (Ω) | RATED DC CURRENT (mA) |
|-------------------------------|--------------------|--------------------|-----------------------------|
| 19 | 100 | 0.05 | 500 |
| 26 | 100 | 0.05 | 500 |
| 31 | 100 | 0.05 | 500 |
| 50 | 100 | 0.10 | 600 |
| 60 | 100 | 0.10 | 600 |
| 70 | 100 | 0.10 | 600 |
| 80 | 100 | 0.20 | 400 |
| 90 | 100 | 0.20 | 400 |
| 100 | 100 | 0.20 | 400 |
| 120 | 100 | 0.20 | 400 |
| 150 | 100 | 0.20 | 300 |
| 200 | 100 | 0.20 | 300 |
| 300 | 100 | 0.30 | 300 |
| 500 | 100 | 0.30 | 200 |
| 600 | 100 | 0.30 | 200 |
| 800 | 100 | 0.30 | 200 |
| 1000 | 100 | 0.40 | 200 |
| 1200 | 100 | 0.40 | 100 |
| 1500 | 50 | 0.50 | 100 |
| 2000 | 30 | 0.50 | 100 |

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

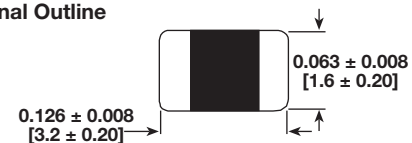
Operating Temperature: - 55 °C to + 125 °C

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

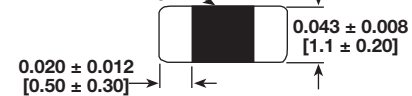
Biased Humidity: 85 % RH at 85 °C, 1000 h at full rated current

DIMENSIONS in inches [millimeters]

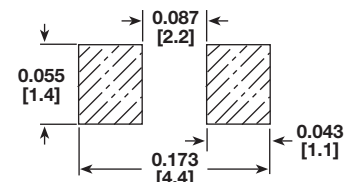
Dimensional Outline



Ferrite Body



Recommended Pad Layout



PACKAGING OPTIONS

- Bulk: 1000 pieces per plastic bag
- Tape and Reel: Paper carrier tape, 3000 pieces per reel

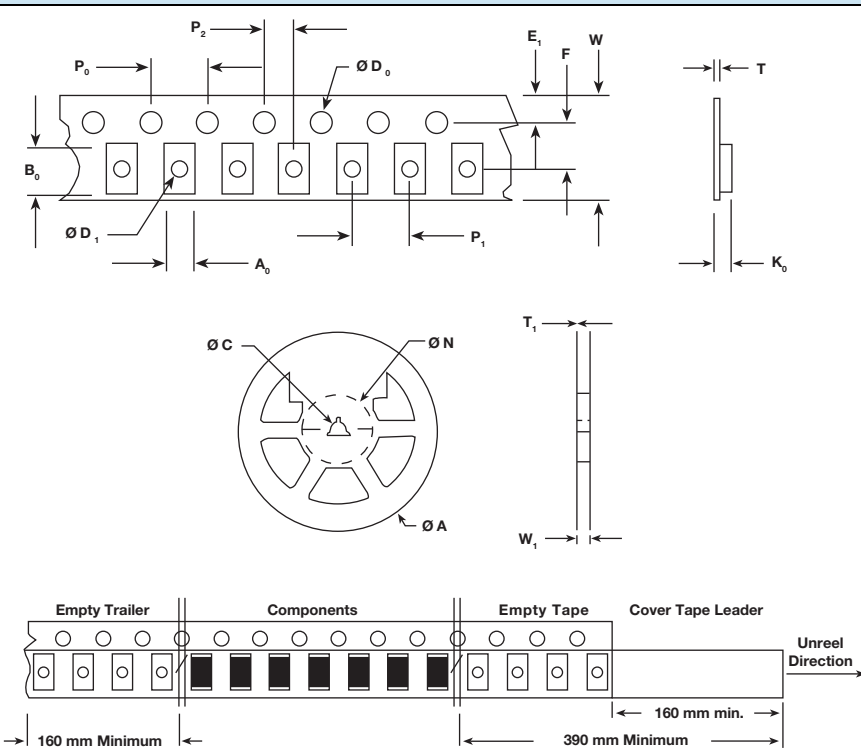
DESCRIPTION

| | | | | |
|-----------------|-----------------|---------------------|--------------|-------------------------------|
| ILB-1206 | 19 Ω | ± 25 % | ER | e3 |
| MODEL | IMPEDANCE VALUE | IMPEDANCE TOLERANCE | PACKAGE CODE | JEDEC LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER

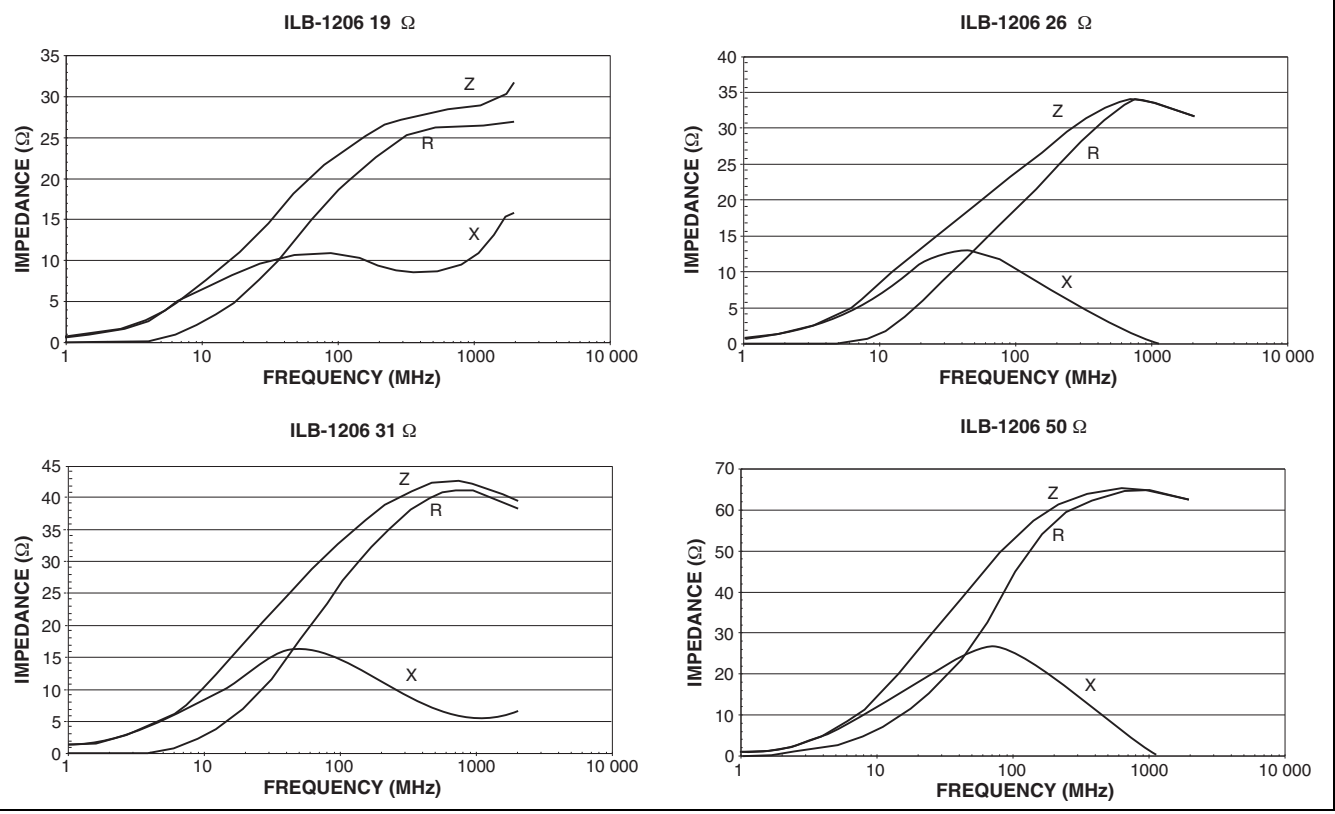
| | | | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|--------------|-----------------|----------|----------|---------------------|----------|----------|
| I | L | B | 1 | 2 | 0 | 6 | E | R | 1 | 9 | 0 | V |
| PRODUCT FAMILY | | | SIZE | | | PACKAGE CODE | IMPEDANCE VALUE | | | IMPEDANCE TOLERANCE | | |

TAPE AND REEL SPECIFICATIONS in inches [millimeters]

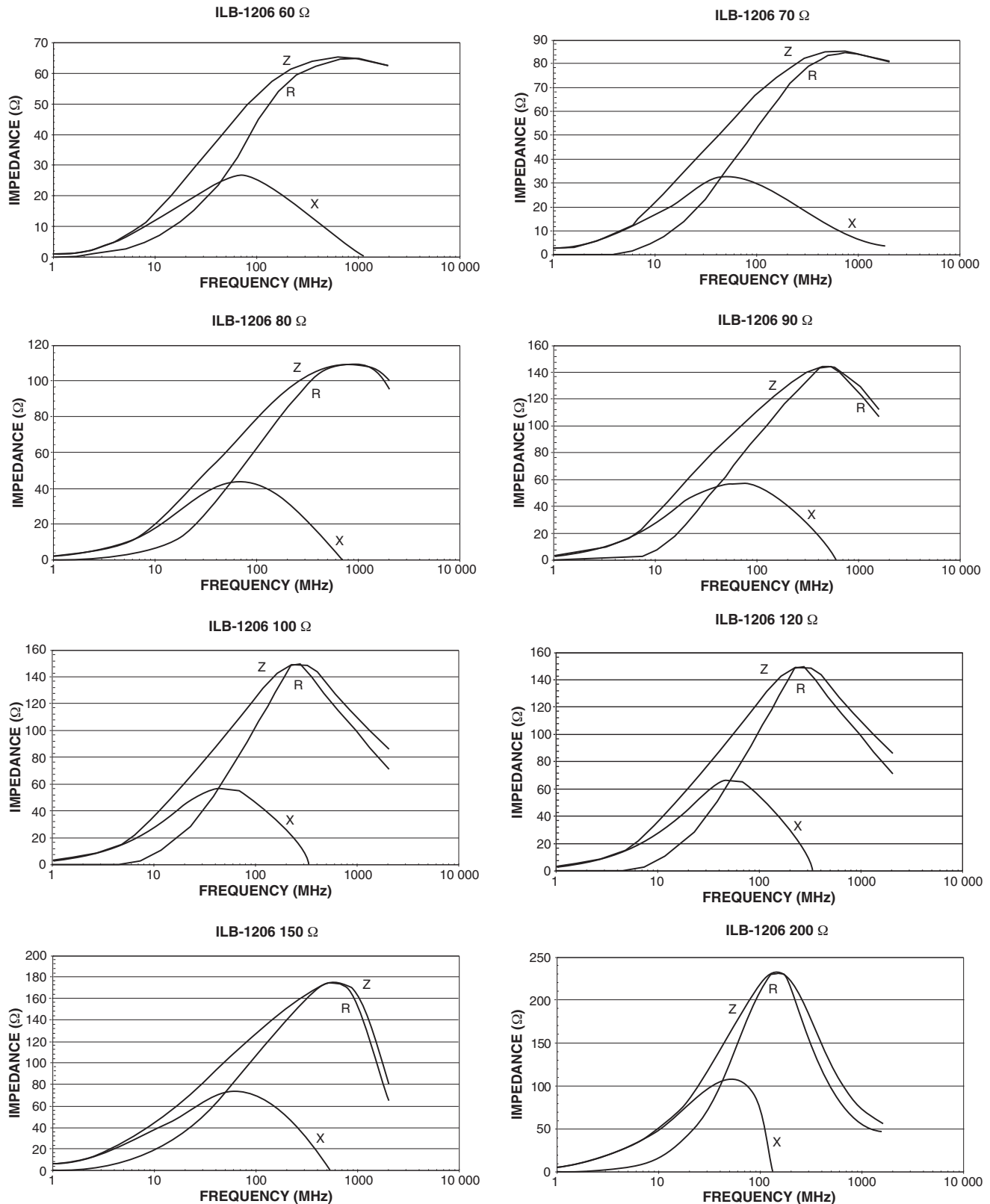


| | |
|----------------|---|
| A ₀ | 0.071 ± 0.008 [1.80 ± 0.2] |
| B ₀ | 0.140 ± 0.006 [3.45 ± 0.15] |
| D ₀ | 0.059 + 0.005/- 0.000 [1.5 + 0.127/- 0.0] |
| D ₁ | 0.039 min. [1.0 min.] |
| E ₁ | 0.069 ± 0.004 [1.75 ± 0.1] |
| F | 0.138 ± 0.002 [3.50 ± 0.05] |
| K ₀ | 0.049 ± 0.002 [1.24 ± 0.05] |
| P ₀ | 0.157 ± 0.004 [4.00 ± 0.1] |
| P ₁ | 0.157 ± 0.004 [4.00 ± 0.1] |
| P ₂ | 0.079 ± 0.002 [2.00 ± 0.05] |
| W | 0.327 max. [8.3 max.] |
| T | 0.009 ± 0.002 [0.2 ± 0.05] |
| A | 7.000 ± 0.079 [178 ± 2.0] |
| N | 2.500 [63.5] |
| C | 0.512 ± 0.020 [13.00 ± 0.5] |
| W ₁ | 0.315 + 0.059/- 0.000 [8.00 + 1.5/- 0.0] |
| T ₁ | 0.079 ± 0.002 [2.00 ± 0.05] |

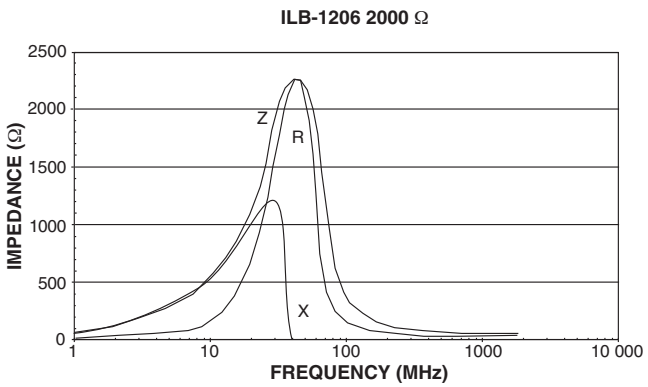
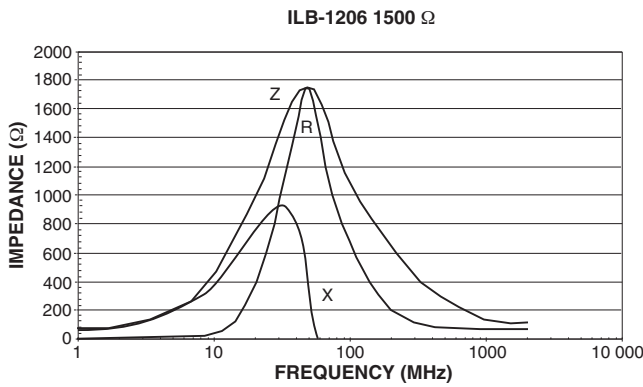
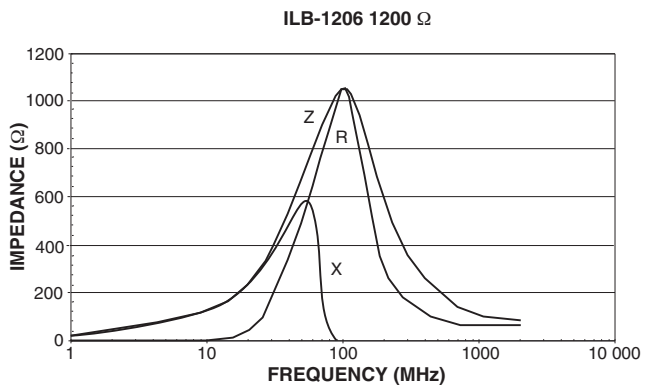
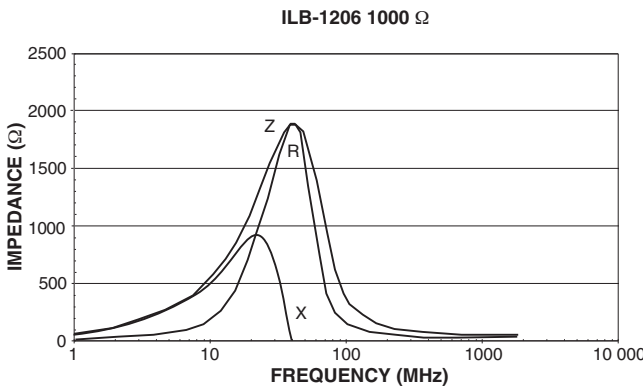
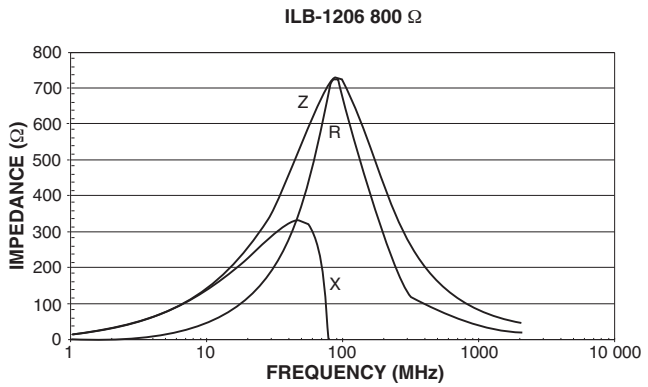
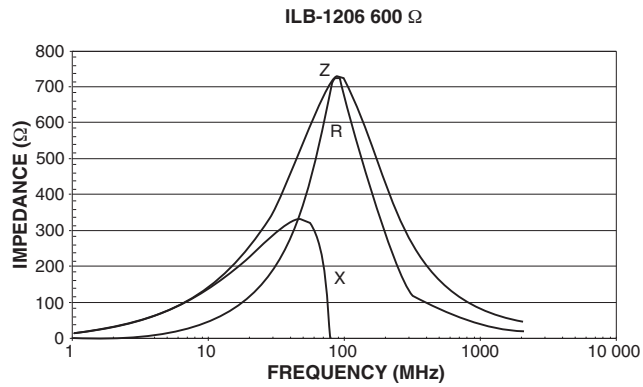
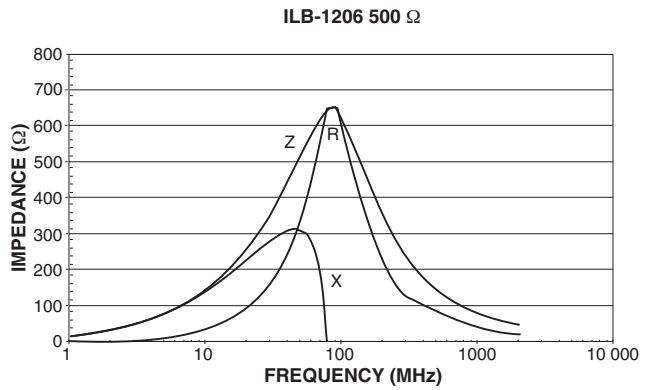
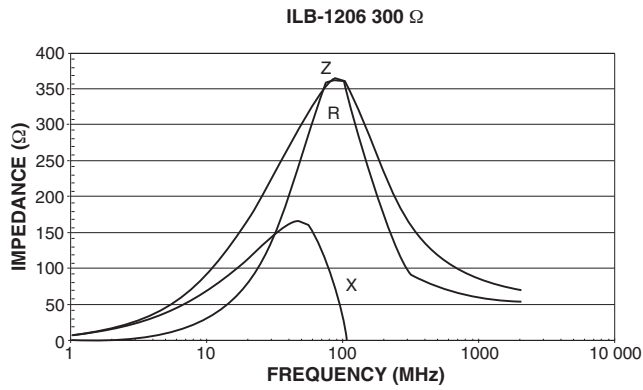
TYPICAL CURVES - Frequency Characteristics of R, X, and Z



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



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





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