

Multilayer Ferrite Beads



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: 1.0 kilograms (2.2 pounds) minimum for 30 seconds

Beam Strength: 2.0 kilograms (4.4 pounds) minimum

FEATURES

- High reliability
- Surface mountable
- Magnetically self shielded
- Nickel barrier plating virtually eliminates silver migration
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

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

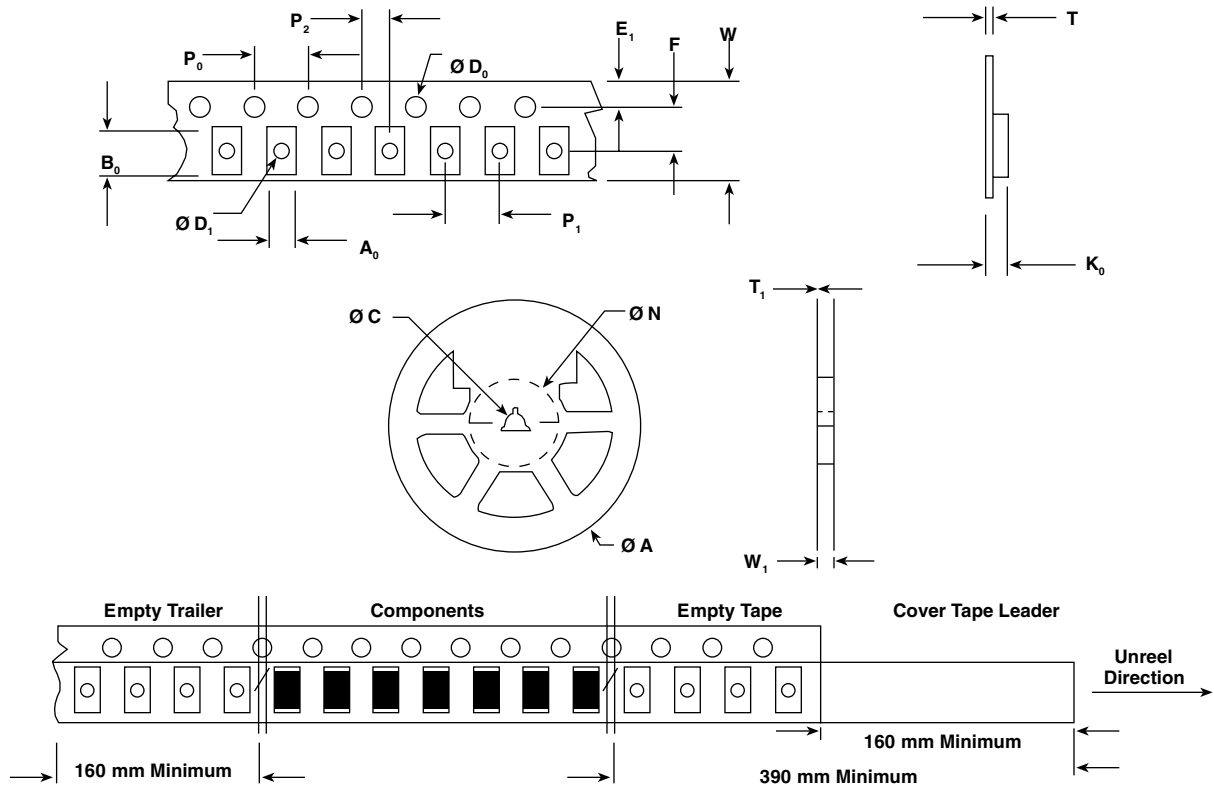
| STANDARD ELECTRICAL SPECIFICATIONS | | | | |
|------------------------------------|--------|-----------------|-----------------|-----------------------|
| IMPEDANCE (Ohms) | TOL. | FREQUENCY (MHz) | DCR MAX. (Ohms) | RATED DC CURRENT (mA) |
| 19 | ± 25 % | 100 | 0.05 | 500 |
| 26 | ± 25 % | 100 | 0.05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

| DIMENSIONS in inches [millimeters] | | | |
|------------------------------------|------------------------------|-----------------------------|------------------------------|
| Dimensional Outline | | | |
| | | | |
| A | B | C | D |
| 0.126 ± 0.008 [3.20 ± 0.2] | 0.063 ± 0.008 [1.6 ± 0.2] | 0.02 ± 0.012 [0.5 ± 0.3] | 0.043 ± 0.008 [1.1 ± 0.2] |
| Suggested Pad Layout | | | |
| | | | |
| E | F | G | H |
| 0.173 [4.4] | 0.055 [1.4] | 0.087 [2.2] | 0.043 [1.1] |

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

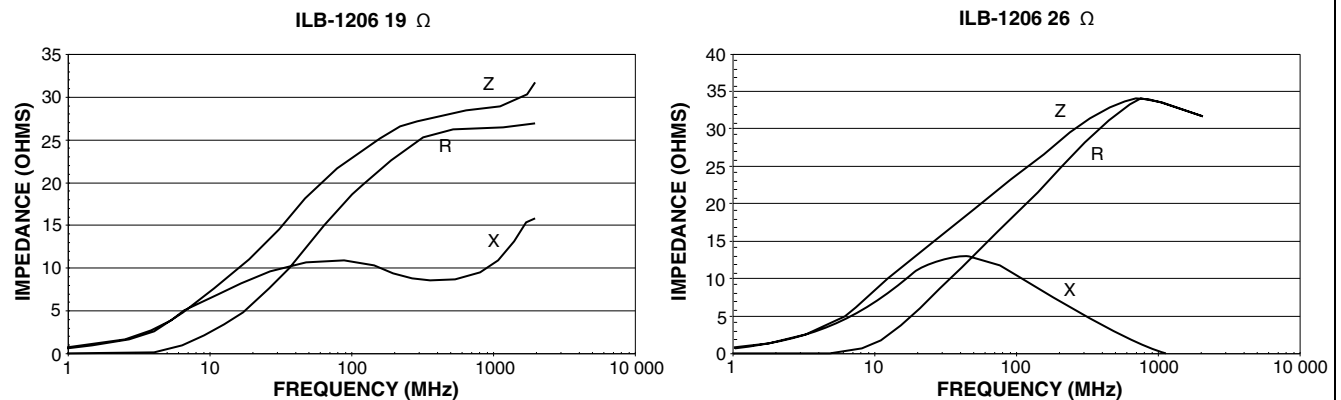
| DESCRIPTION | | | | |
|--------------------|----------------------------|----------------------------------|-----------------------|--|
| ILB-1206 MODEL | 19 Ω IMPEDANCE VALUE | ± 25 % IMPEDANCE TOLERANCE | ER PACKAGE CODE | e3 JEDEC LEAD (Pb)-FREE STANDARD |
| GLOBAL PART NUMBER | | | | |
| I L B | 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]

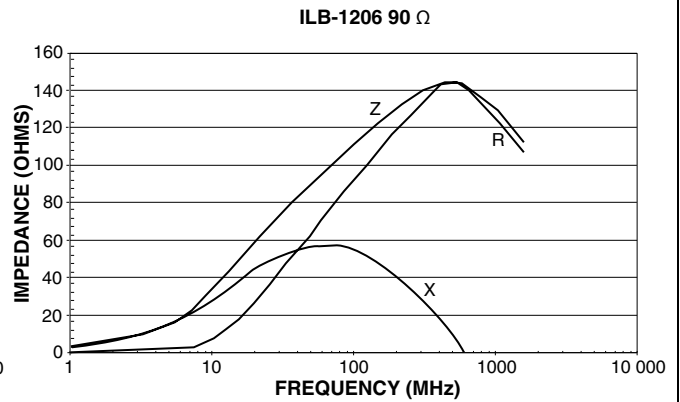
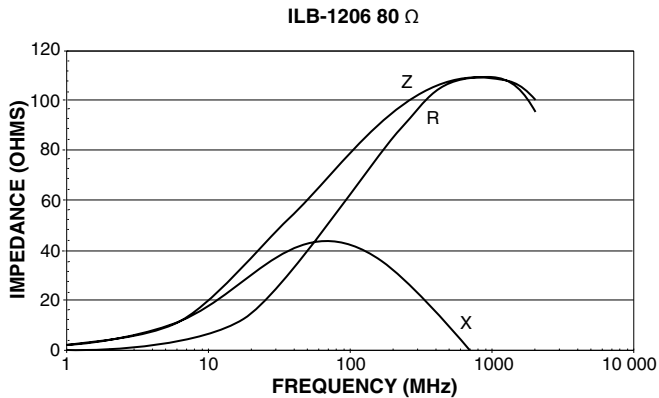
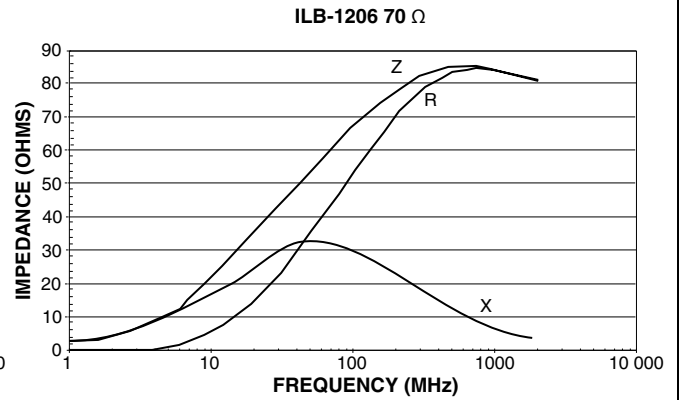
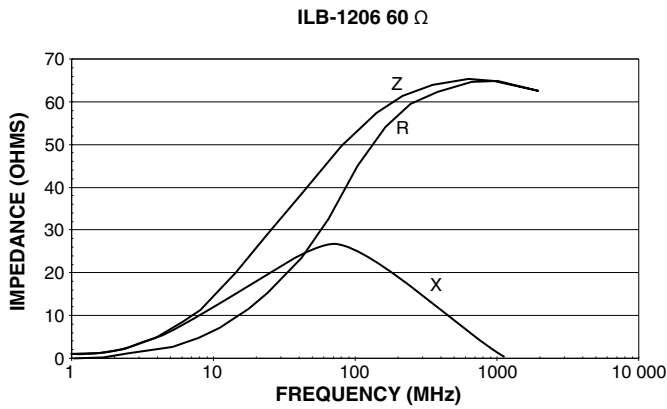
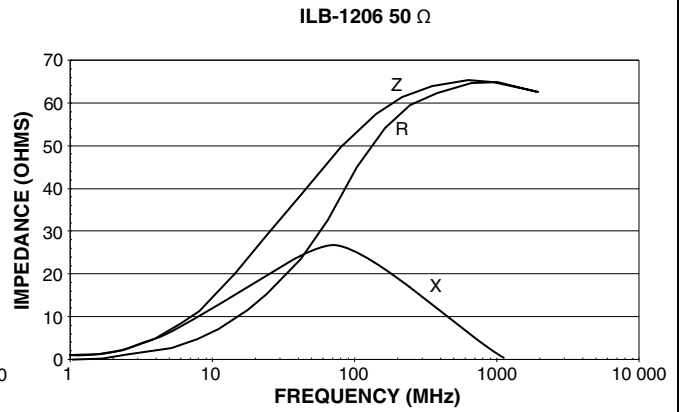
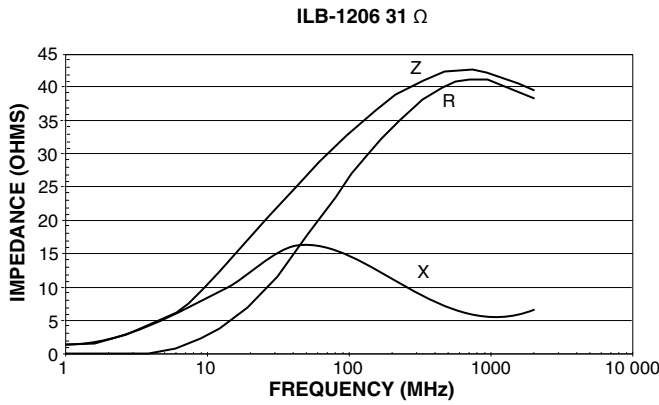


| | | | |
|----------------------|------------------------------------|----------------------|------------------------------------|
| A₀ | 0.071 ± 0.008 [1.8 ± 0.2] | P₂ | 0.079 ± .002 [2.00 ± 0.05] |
| B₀ | 0.14 ± .006 [3.45 ± 0.15] | W | 0.327 Max. [8.3 Max.] |
| D₀ | 0.059 + .005/- 0.000 [1.5 + 0.127] | T | 0.009 ± .002 [0.2 ± 0.05] |
| D₁ | 0.039 Min. [1.0 Min.] | A | 7.000 ± .079 [178 ± 2.0] |
| E₁ | 0.069 ± .004 [1.75 ± 0.1] | N | 2.500 [63.5] |
| F | 0.138 ± .002 [3.50 ± 0.05] | C | 0.512 ± .020 [13.00 + 0.50] |
| K₀ | 0.049 ± .002 [1.24 ± 0.05] | W₁ | 0.315 + 0.059/- 0.00 [8.00 + 1.50] |
| P₀ | 0.157 ± .004 [4.00 ± 0.1] | T₁ | 0.079 ± .002 [2.00 ± 0.05] |
| P₁ | 0.157 ± .004 [4.00 ± 0.1] | | |

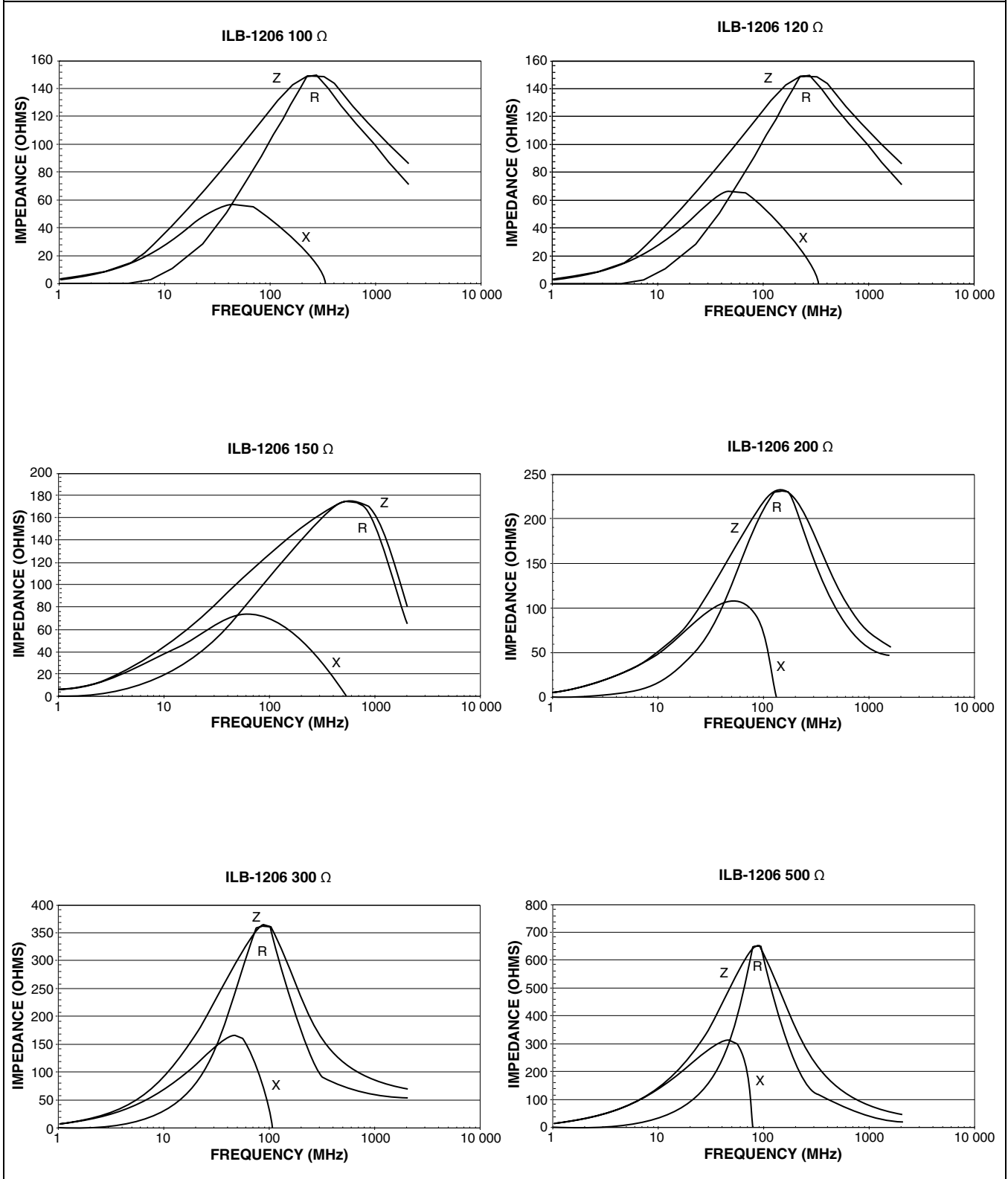
TYPICAL CURVES - FREQUENCY CHARACTERISTICS OF Z, X AND R



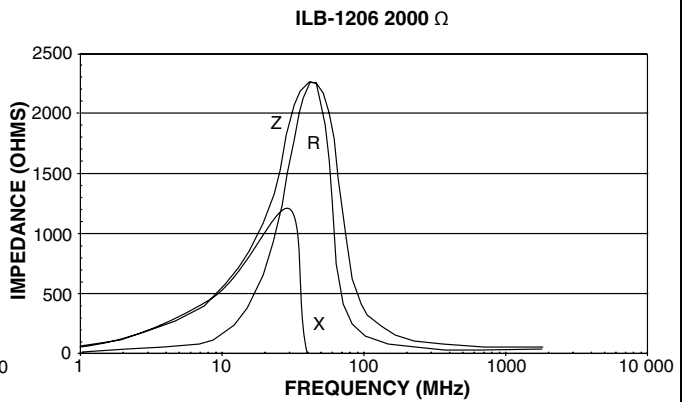
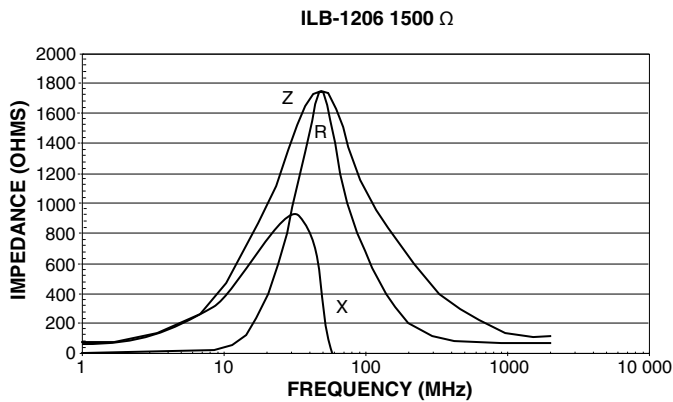
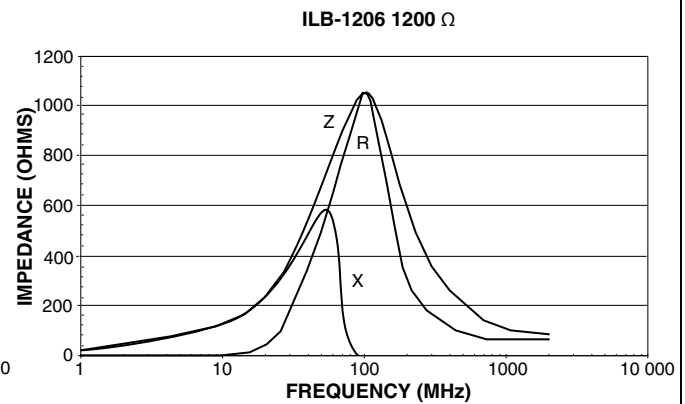
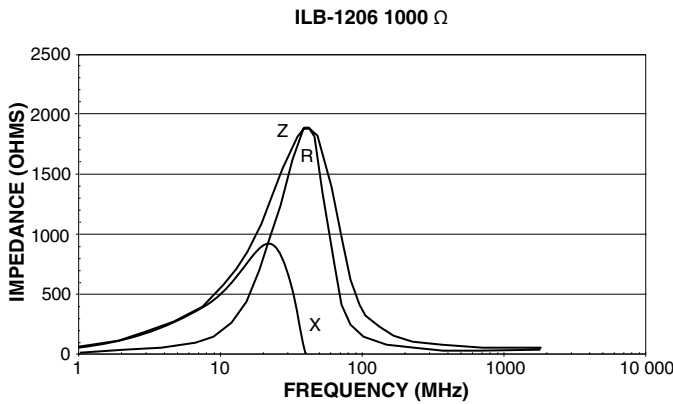
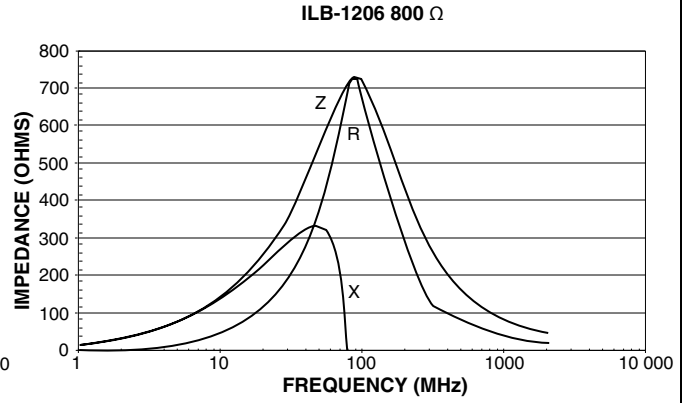
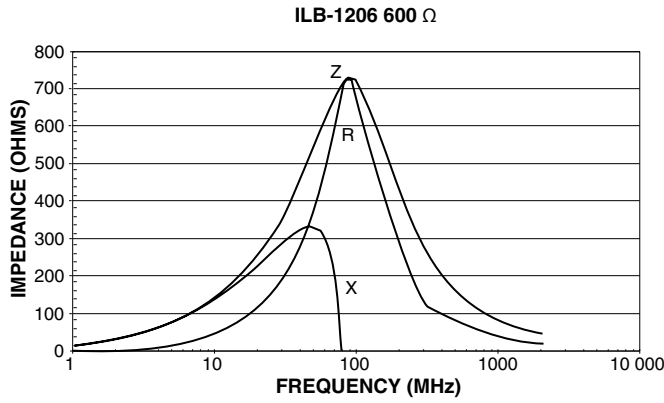
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