

## 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

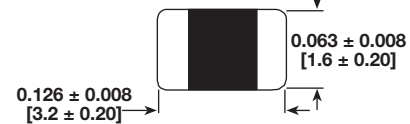
**Operating Temperature:** - 55 °C to + 125 °C

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

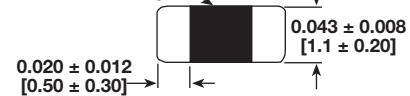
**Biased Humidity:** 85 % RH at 85 °C, 1000 h at full rated current

### DIMENSIONS in inches [millimeters]

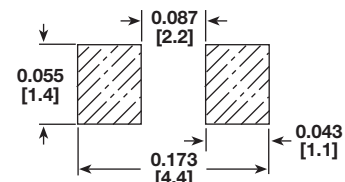
#### Dimensional Outline



#### Ferrite Body



#### Recommended Pad Layout



### PACKAGING OPTIONS

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

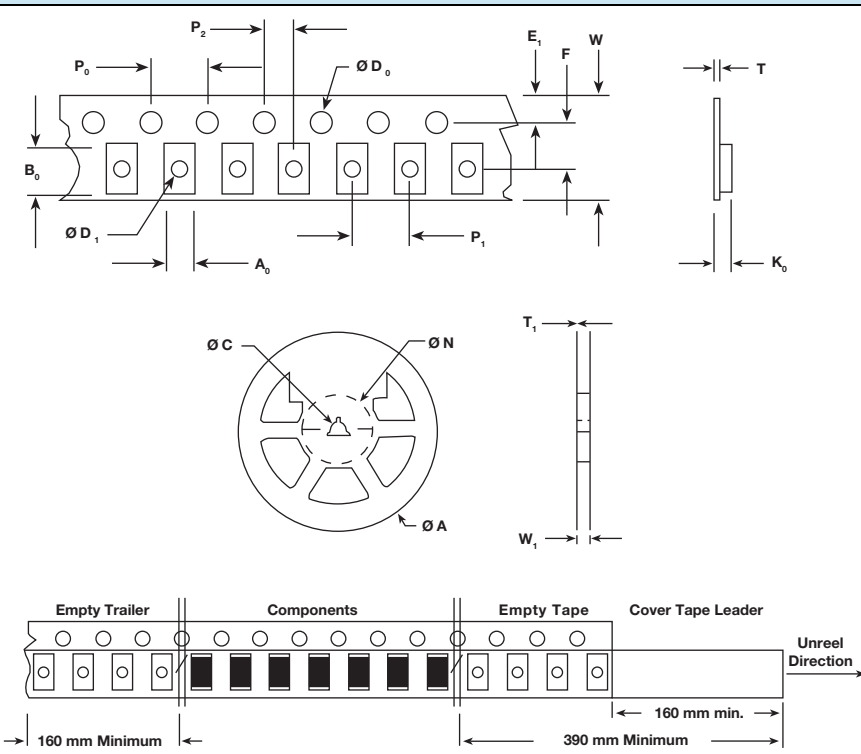
### DESCRIPTION

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

### GLOBAL PART NUMBER

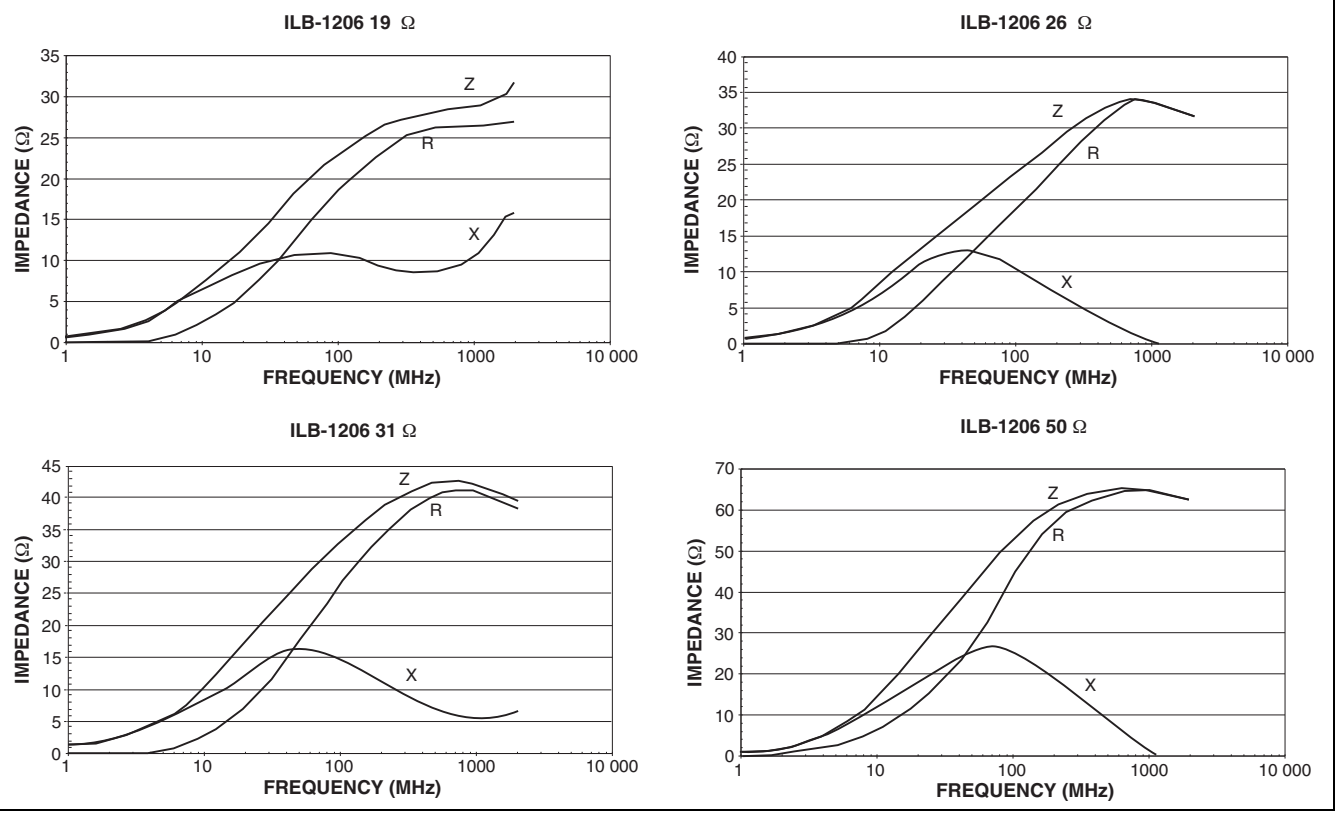
<b>I</b>	<b>L</b>	<b>B</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>6</b>	<b>E</b>	<b>R</b>	<b>1</b>	<b>9</b>	<b>0</b>	<b>V</b>
PRODUCT FAMILY			SIZE			PACKAGE CODE		IMPEDANCE VALUE			IMPEDANCE TOLERANCE	

**TAPE AND REEL SPECIFICATIONS** in inches [millimeters]

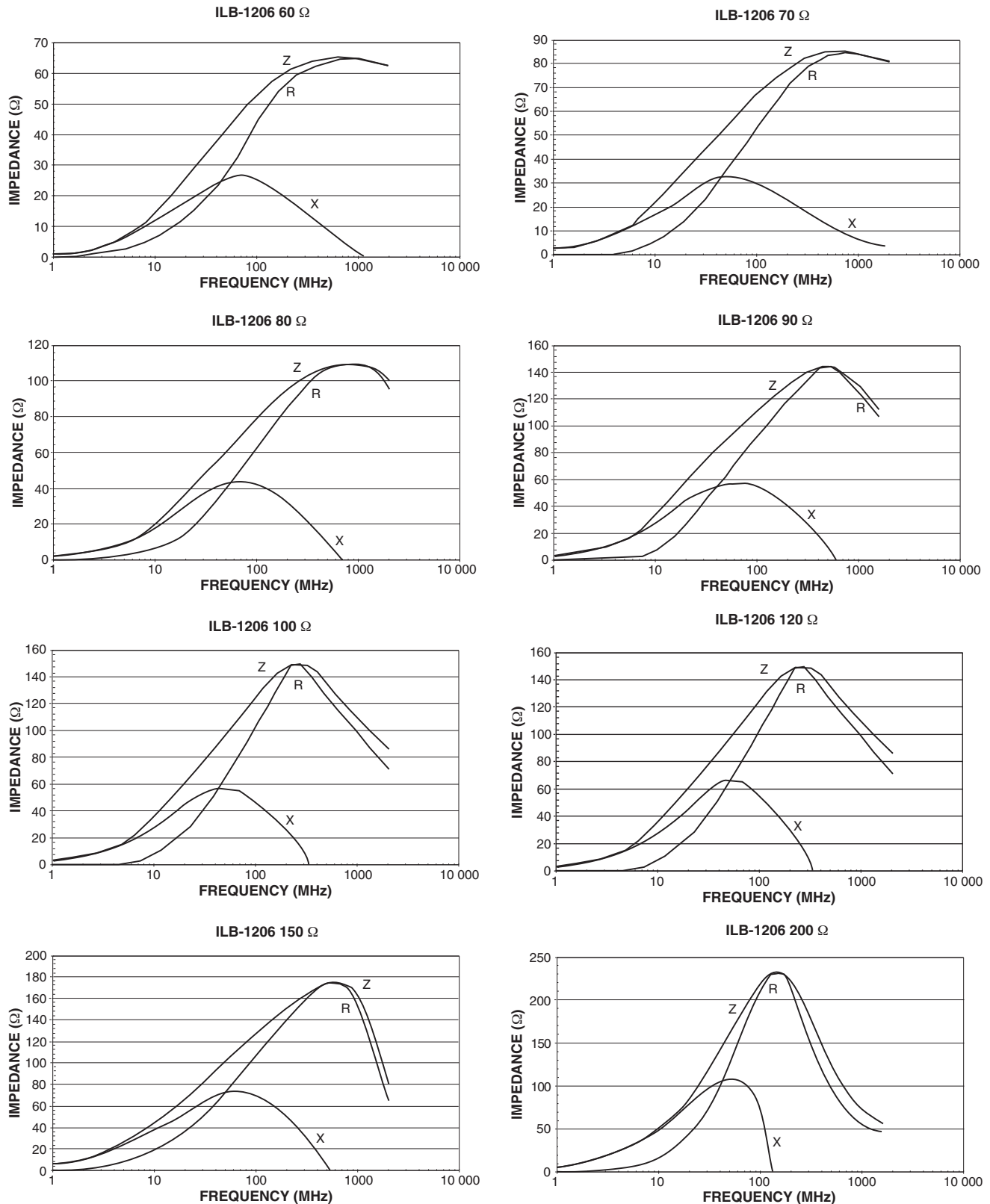


A <sub>0</sub>	0.071 ± 0.008 [1.80 ± 0.2]
B <sub>0</sub>	0.140 ± 0.006 [3.45 ± 0.15]
D <sub>0</sub>	0.059 + 0.005/- 0.000 [1.5 + 0.127/- 0.0]
D <sub>1</sub>	0.039 min. [1.0 min.]
E <sub>1</sub>	0.069 ± 0.004 [1.75 ± 0.1]
F	0.138 ± 0.002 [3.50 ± 0.05]
K <sub>0</sub>	0.049 ± 0.002 [1.24 ± 0.05]
P <sub>0</sub>	0.157 ± 0.004 [4.00 ± 0.1]
P <sub>1</sub>	0.157 ± 0.004 [4.00 ± 0.1]
P <sub>2</sub>	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 <sub>1</sub>	0.315 + 0.059/- 0.000 [8.00 + 1.5/- 0.0]
T <sub>1</sub>	0.079 ± 0.002 [2.00 ± 0.05]

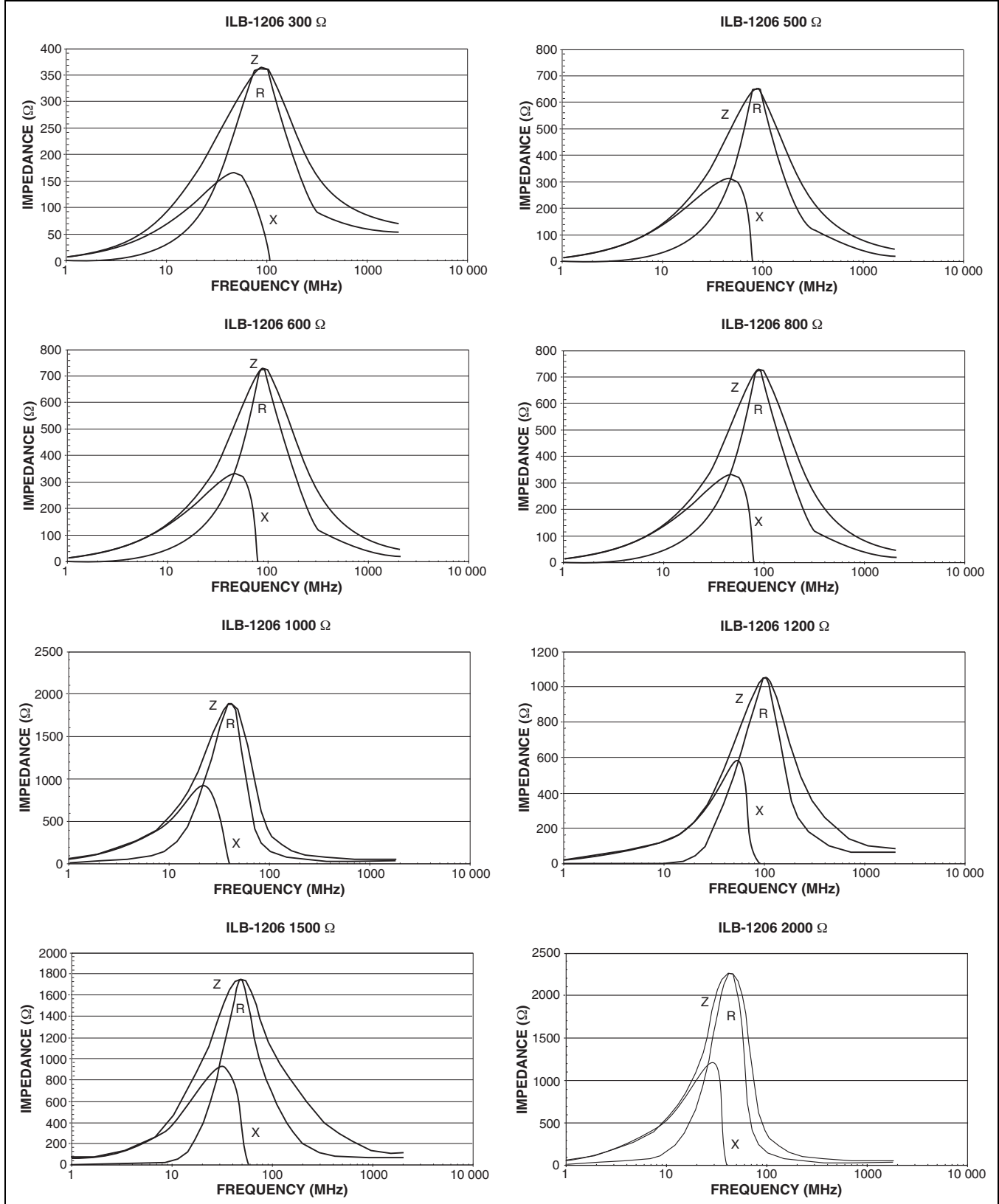
**TYPICAL CURVES - Frequency Characteristics of R, X, and Z**



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