

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: 0.6 kg (1.32 lbs) minimum for 30 s

Beam Strength: 1 kg (2.2 lbs) minimum

Flex: 0.079" [2 mm] min. mounted on 0.063" [1.6 mm] thick PC board

STANDARD ELECTRICAL SPECIFICATIONS

| Z ± 25 % AT 100 MHz (Ω) | DCR MAX. (Ω) | RATED DC CURRENT (mA) |
|-------------------------------|--------------------|-----------------------------|
| 7 | 0.06 | 600 |
| 11 | 0.06 | 600 |
| 17 | 0.06 | 600 |
| 26 | 0.06 | 600 |
| 32 | 0.06 | 600 |
| 40 | 0.15 | 300 |
| 50 | 0.15 | 300 |
| 60 | 0.15 | 300 |
| 75 | 0.15 | 300 |
| 80 | 0.15 | 300 |
| 90 | 0.15 | 300 |
| 100 | 0.15 | 300 |
| 120 | 0.15 | 300 |
| 150 | 0.15 | 300 |
| 180 | 0.20 | 200 |
| 220 | 0.20 | 200 |
| 300 | 0.20 | 200 |
| 400 | 0.30 | 200 |
| 600 | 0.30 | 200 |
| 1000 | 0.35 | 100 |
| 1500 | 0.40 | 100 |
| 2000 | 0.50 | 80 |
| 2200 | 0.60 | 80 |

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

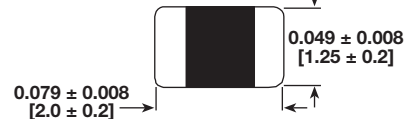
Operating Temperature: - 55 °C to + 125 °C

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

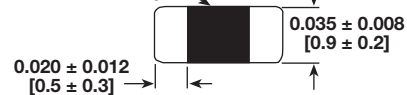
Biased Humidity: 85 % RH at 85 °C, 1000 h at full rated current

DIMENSIONS in inches [millimeters]

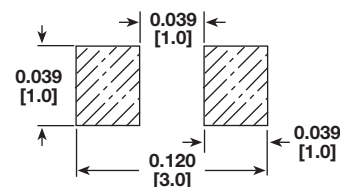
Dimensional Outline



Ferrite Body



Recommended Pad Layout



PACKAGING OPTIONS

- Tape and Reel: Embossed plastic carrier tape per EIA481-1, 4000 pieces on a 7" [178 mm] reel

DESCRIPTION

| | | | | |
|-----------|-----------------|---------------------|--------------|-------------------------------|
| ILBB-0805 | 11 | ± 25 % | ER | e3 |
| MODEL | IMPEDANCE VALUE | IMPEDANCE TOLERANCE | PACKAGE CODE | JEDEC LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER

| | | | | | | | | | | | | | |
|----------------|---|---|---|------|---|---|---|--------------|---|-----------------|---|---|---------------------|
| I | L | B | B | 0 | 8 | 0 | 5 | E | R | 1 | 1 | 0 | V |
| PRODUCT FAMILY | | | | SIZE | | | | PACKAGE CODE | | IMPEDANCE VALUE | | | IMPEDANCE TOLERANCE |

TAPE AND REEL SPECIFICATIONS 0805 SIZE PER EIA-481-1 in inches [millimeters]



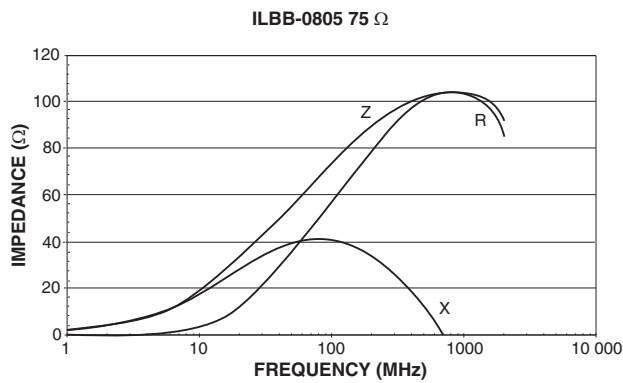
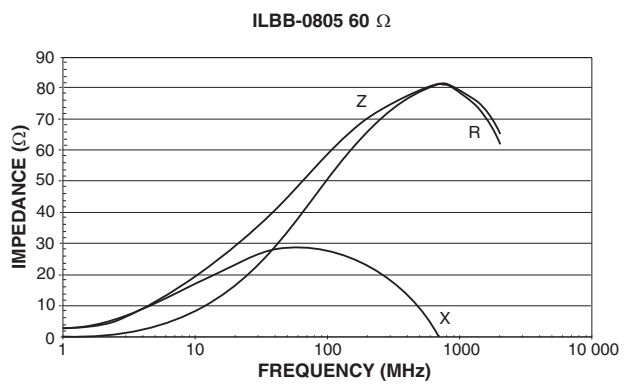
| | |
|----------------|-------------------------------------------|
| A ₀ | 0.059 ± 0.004 [1.50 ± 0.1] |
| B ₀ | 0.093 ± 0.006 [2.35 ± 0.15] |
| D ₀ | 0.059 + 0.004/- 0.000 [1.5 + 0.1/- 0.0] |
| D ₁ | 0.039 min. [1.0 min.] |
| E ₁ | 0.069 ± 0.004 [1.75 ± 0.1] |
| F | 0.138 ± 0.002 [3.50 ± 0.05] |
| 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 | 0.008 ± 0.002 [0.2 ± 0.05] |
| A | 7.000 ± 0.079 [178 ± 2.0] |
| N | 2.500 [63.5] |
| C | 0.512 ± 0.020/- 0.008 [13.00 ± 0.5/- 0.2] |
| W ₁ | 0.315 + 0.059/- 0.000 [8.00 + 1.5] |
| 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





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





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