

Wide Band Chokes and Beads

FASTRON's Wide Band Chokes are Ferrite- Beads, wound with tinned copper wire. These Beads are commonly used in signal filtering and it protects against radio frequency interferences to IC's.

Applications To filter internal and external EMI. Reduction of radiated interference on TV receivers. For all kind of Electronic Circuits. Suppression of Brush-motors and Power Supplies (SMPS)

Technical Data

| | |
|---------------------------------------|---|
| Impedance, Z | Measured with HP 4286A RF LCR meter or equivalent at frequency f_L |
| Operating Temperature | 06H, Leaded Beads : -55°C to +85°C SMD Beads : -40°C to +150°C (Including component self-heating) |
| Recommended soldering method | Wave (Leaded) Reflow (SMD) |
| Moisture Sensitivity Levels (MSL) | MSL Level 1, indicating unlimited floor life at $\leq 30^\circ\text{C}$ / 85% relative humidity |
| Solderability | Using lead free solder (Sn 99.9) at $260^\circ\text{C} \pm 5^\circ\text{C}$ for 5 ± 0.5 seconds, min 90% solder coverage of metallization Standard: IEC 68-2-20 (Ta) |
| Resistance to Soldering Heat | Resistant to $260^\circ\text{C} \pm 5^\circ\text{C}$ for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb) |
| Resistance to Solvent | Resistant to Isopropyl alcohol for 5 ± 0.5 minutes at $23^\circ\text{C} \pm 5^\circ\text{C}$ Standard: IEC 68-2-45 |
| Climatic Test | Defined by the following standards IEC 68-2-1 for Cold test: -55°C for 96 hours IEC 68-2-2 for Dry heat test: +85°C for 96 hours IEC 60068-2-78 for Humidity test: 40°C at RH 95% for 4 days |
| Thermal Shock Test | Temperature cycle : -55°C to +85°C to -55°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G |
| Tensile Strength of Leads (Pull Test) | Components withstand a pulling force of 10N for 10 ± 1 seconds IEC 60068-2-21 (Ua1) |
| Mechanical Shock | Mil-Std 202 Method 213 Condition C 3 axis, 6 times, total 18 shocks 100 G, 6 ms, half-sine |
| Vibration | Mil-Std 202 Method 204 20 mins at 5G 10 Hz to 2000 Hz 12 cycles each of 3 orientations |

Ordering Code Example: Bead /10-600P-YY

Bead /10 (Model) - 600P (Impedance Value) - YY (Packing Code) → **Bead /10-600P-02**

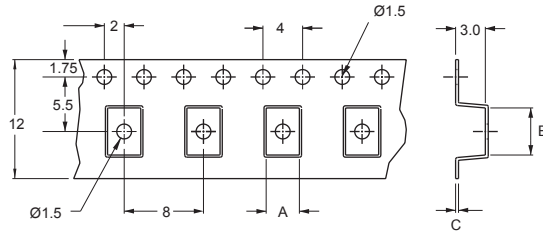
| Packing Code - | SMD | Leaded |
|----------------|--|---|
| | 01 (7") } Taped / Reel 04 (13") } (refer to below SMD Taping) | 00 } Loose in Box 50 } 01 -- Taped / Reel (refer to Leaded Inductors, Packing Spec fig.3) 02 -- Taped / Ammopack (refer to Leaded Inductors, Packing Spec fig.2) 51 -- Taped / Ammopack (refer below Radial Taping) |

Wide Band Chokes and Beads

Packing Specification

SMD Taping

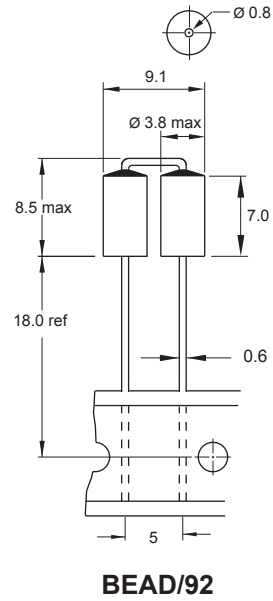
Packing code : 01, 04



| Type | A | B | C |
|---------|------|------|------|
| SMB/001 | 3.35 | 4.75 | 0.29 |
| SMB/002 | 3.55 | 9.3 | 0.27 |

Radial Taping

Packing code : 51



Packing Specification

FASTRON's Component Key Characteristics



Approved according to AEC-Q200



Approved according to AEC-Q200 with High Temperature



Suitable for High Temperature



Part is RoHS conform and Halogen free



Mechanical Shock and Vibration Proof



Designed for High Q-values



Exceptionally High Q-values



Optimized for High Currents



Optimized for High Voltages