

## **Suppression Coils**

FASTRON suppression coils come with high rated currents and low DC resistance characteristics. Inductance values range from 1µH to 10 000µH. They are available in tape and ammopack packing.

## **Applications**

Communication: RF blocking, filtering and decoupling

Others: entertainment electronics and interference suppression

## **Technical Data**

L – Value (rated inductance)	Measured with Bode 100 Vector Network Analyzer at frequency f∟
DCR (max)	Measured at 25°C
Rated DC Current	I based on temperature rise, determined at the point where the temperature rise does not exceed 40°C above the ambient temperature of 25°C
Operating Temperature	-55°C to +125°C (includes component self-heating)
Recommended soldering method	Wave (Leaded) Reflow (MESC SMD version)
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at ≤ 30°C / 85% relative humidity
Solderability	Using lead free solder (Sn 99.9) at 260°C ± 5°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°C ± 5°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°C ± 5°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: +125°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 +125°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 20N for 10 ± 1 seconds IEC 60068-2-21 (Ua <sub>1</sub> )
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: MISC-100X-YY

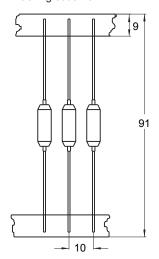
MISC -MISC-100M-01 (Model) (Inductance Value) (Tolerance) (Packing Code)

- Ferrite, Iron Dust Core Types Tolerances - K (10%), M (20%)

Packing Code - 00 (Loose in Box), 01 (Taped / Reel)

# Packing Specification

### Standard Axial Taping Packing code: 01



Revision date: 20 Jan 2016