

## 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 ammpack 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 $f_L$  |
| 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)<br>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<br>Standard: IEC 68-2-20 (Ta)  |
| Resistance to Soldering Heat          | Resistant to 260°C ± 5°C for 10 ± 1 seconds<br>Standard: IEC 68-2-20 (Tb)  |
| Resistance to Solvent                 | Resistant to Isopropyl alcohol for 5 ± 0.5 minutes at 23°C ± 5°C<br>Standard: IEC 68-2-45  |
| Climatic Test                         | Defined by the following standards<br>IEC 68-2-1 for Cold test: -55°C for 96 hours<br>IEC 68-2-2 for Dry heat test: +125°C for 96 hours<br>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<br>Max/Min temperature duration: 15 minutes<br>Temperature transition duration: 5 minutes<br>Cycles: 25<br>Standard: MIL-STD-202G                         |
| Tensile Strength of Leads (Pull Test) | Components withstand a pulling force of 20N for 10 ± 1 seconds<br>IEC 60068-2-21 (Ua <sub>1</sub> )  |
| Mechanical Shock                      | Mil-Std 202 Method 213<br>Condition C<br>3 axis, 6 times, total 18 shocks<br>100 G, 6 ms, half-sine  |
| Vibration                             | Mil-Std 202 Method 204<br>20 mins at 5G<br>10 Hz to 2000 Hz<br>12 cycles each of 3 orientations  |

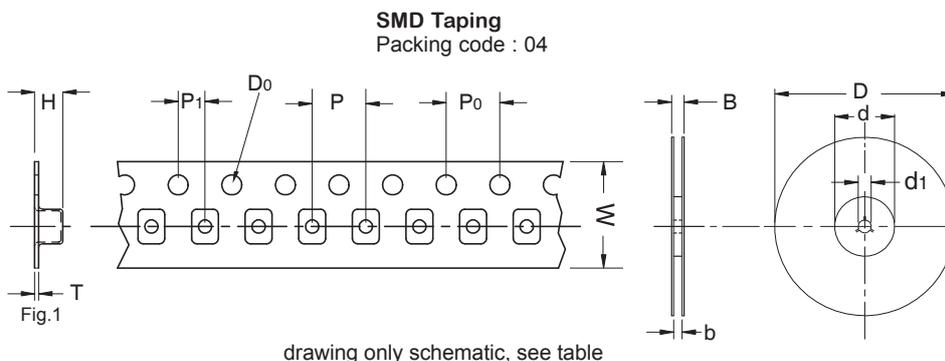
Technical Data & Packing Spec

**Ordering Code** Example: MISC-100X-YY

**MISC** - **100** **X** - **YY** → **MISC-100M-01**  
(Model) (Inductance Value) (Tolerance) (Packing Code)

- Core Types - Ferrite, Iron Dust
- Tolerances - K (10%), M (20%)
- Packing Code - 00 (Loose in Box), 01, 04 (Taped / Reel)

### Packing Specification



| Type       | D   | D <sub>0</sub> | d   | d <sub>1</sub> | B    | b    | W  | P  | P <sub>0</sub> | P <sub>1</sub> | H   | T   |
|------------|-----|----------------|-----|----------------|------|------|----|----|----------------|----------------|-----|-----|
| MESC [-04] | 330 | 1.5            | 100 | 13             | 47.5 | 43.9 | 44 | 16 | 4              | 2              | 7.5 | 0.5 |

### Standard Axial Taping

