

Suppression Coils

FASTRON's suppression coils come with high rated currents and low DC resistance characteristics. Inductance values range from 1 μ H to 10000 μ H. They are available in tape and ammo pack packaging.

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 or equivalent 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 (including component self-heating)
	Recommended Soldering Method	Wave
	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: +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 (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

Technical Data

Ordering Code Example: MISC-100X-YY

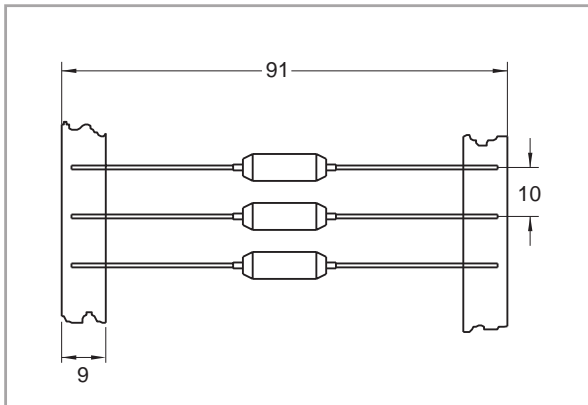
MISC - 100 X - YY ➔ MISC-100M-01
 (Model) (Inductance Value) (Tolerance) (Packaging Code)

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

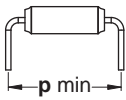
Packaging
Specification

Standard Axial Taping

Packaging code: 01



Recommended forming pitch



Series	MISC	SMSC	MESC	LASC	SSSC	MSSC	LSSC	77A
p min (mm)	17.5	22.5	28	32.5	27.5	32.5	37.5	29.5 (33.5*)

*only valid for 77A-3R9M-00

Packaging 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