Plugable Inductors

FASTRON plugable inductors offer a wide range of inductance values from 10µH to 150 000µH and a high Q.
They come in shielded, tube and cap versions able to protect the winding. They are available in reel packing and ammopack.

Applications

Applied in DC-DC converters and all types of electronic instruments, such as digital amplifier LPF and filtering applications.

Technical Data

L – Value (rated inductance)	Measured with HP 4194A Impedance / Gain-phase Analyzer at frequency f_L
Q – Factor (min)	Measured with HP 4194A Impedance / Gain-phase Analyzer at frequency f_Q
SRF (min)	Measured with HP 8714 RF Network Analyzer
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 +85°C
Recommended soldering method	Wave
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: + 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	Components withstand a pulling force of 10N for 10 ± 1 seconds IEC 60068-2-21 (Ua_1)

Ordering Code

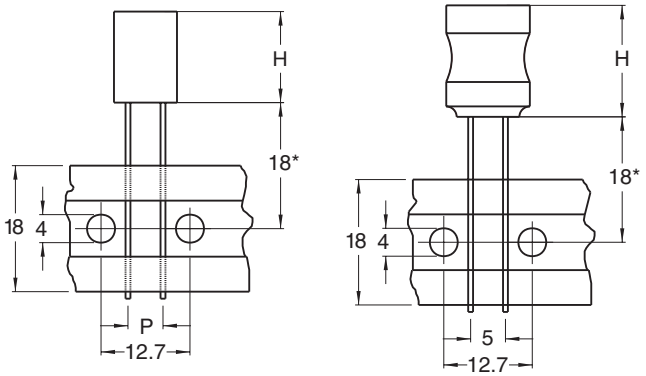
Example: 09P-101J-51

09P - 101 J - 51
(Model) (Inductance Value) (Tolerance) (Packing Code)

Core Type - Ferrite
Tolerances - J (5%), K (10%)
Packing Code - 50 (Loose in Box), 51 (Reel)

Packing Specification

Reel Taping (51)



Cap version	H max. (mm)	P
07P/F	11	2.5
09P/F	14	5

Tube version	H max. (mm)
07P	11
09P	14

*according to IEC 286 (also available 16.5mm)