

Plugable Inductors (Pin Type Coils)

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 signal filtering applications.

Technical Data	L – Value (rated inductance)	Measured with HP 4194A Impedance / Gain-phase Analyzer at frequency fL
	Q – Factor (min)	Measured with HP 4194A Impedance / Gain-phase Analyzer at frequency f_Q
	SRF (min)	Measured with HP 4194A Impedance / Gain-phase 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 Isat Current based on inductivity drop of 10% related to the unloaded inductivity
	Operating Temperature	-55°C to +85°C
	Recommended soldering method	Wave
	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 $260^{\circ}C \pm 5^{\circ}C$ 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 (Pull Test)	Components withstand a pulling force of 10N for 10 ± 1 seconds IEC 60068-2-21 (Ua ₁)
	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: <u>09P-101X-YY</u>

09P - (Model)	101 (Inductance Value) (X (Tolerance)	• YY (Packing Code)	→	09P-101K-51
Core Type	- Ferrite				

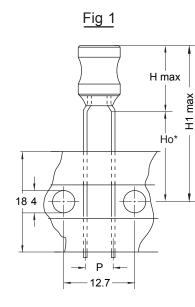
Core Type	
Tolerances	- J (5%), K (10%), M (20%)
Packing Code	- 50 (Loose in Box), 51 (Reel)

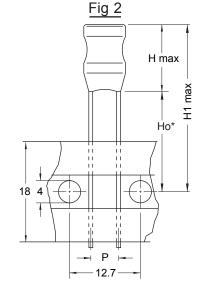


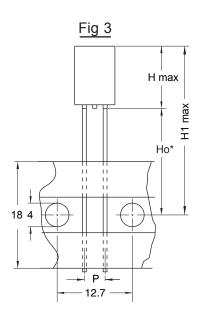
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Packing Specification

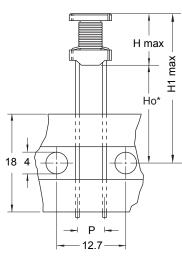
Reel Taping (51)

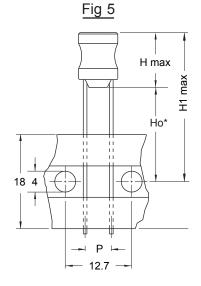












*according to IEC 286

Series	H max	Но	H1 max	Р	Fig
07P	12.5	16	28	5	1
07P/F	10.5	18	32.2	3.5	3
09P	13.5	18	32.2	5	2
09P/F	13.4	18	32.2	5	3
07HCP & 07HVP	10	18	32.2	5	4
07HCP/T	10.5	18	32.2	5	5

