

Plugable Inductors (Pin Type Coils)

FASTRON plugable inductors offer a wide range of inductance values from 1µH to 150 000µH, a high Q and also suitable for high currents and high voltages. 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.

L – Value	e (rated inductance)	Measured with Bode 100 Vector Network Analyzer at frequency f_{L}			
Q – Facto	or (min)	Measured with Bode 100 Vector Network Analyzer at frequency $f_{\mbox{\scriptsize Q}}$			
SRF (mir	n)	≥ 40 MHz measured with HP8753ES Network Analyzer < 40 MHz measured with Bode 100 Vector Network Analyzer			
DCR (ma	ax)	Measured at 25°C			
Rated DO	C 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			
Operatine	g Temperature	For plugable inductors : -55°C to +85°C For 07HCP, 07HVP, 09HCP, 09HVP : -55°C to +150°C (including component self-heating) For 07HCP/T, 07HVP/T, 09HCP/T, 09HVP/T : -55°C to +125°C (including component self-heating)			
Recomm	ended soldering method	Wave			
Moisture	Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at ≤ 30°C / 85% relative humidity			
Solderab	ility	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)			
Resistan	ce to Soldering Heat	Resistant to 260°C ± 5°C for 10 ± 1 seconds Standard: IEC 68-2-20 (Tb)			
Resistan	ce to Solvent	Resistant to Isopropyl alcohol for 5 ± 0.5 minutes at $23^{\circ}C \pm 5^{\circ}C$ 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 (plugable, 07HCP/T, 07HVP/T, 09HCP/T, 09HVP/T) and +150°C (07HCP, 07HVP, 09HCP, 09HVP) for 96 hours IEC 60068-2-78 for Humidity test: 40°C at RH 95% for 4 days			
Thermal	Shock Test	Temperature cycle : For plugable, 07HCP/T, 07HVP/T,09HCP/T, 09HVP/T : -55°C to +85°C to -55°C : For 07HCP, 07HVP, 09HCP, 09HVP : -55°C to +150°C to -55°C Max/Min temperature duration: 15 minutes Temperature transition duration: 5 minutes Cycles: 25 Standard: MIL-STD-202G			
Tensile S (Pull Tes	Strength of Leads t)	Components withstand a pulling force of 10N for 10 \pm 1 seconds IEC 60068-2-21 (Ua ₁)			
Mechanio	cal 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			

Remarks : Above technical data is for non-shielded type only.

Ordering Code Example: 09P-101X-YY

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

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

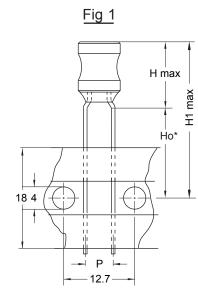


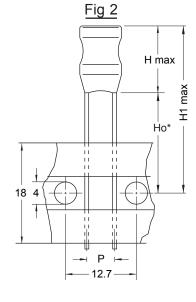
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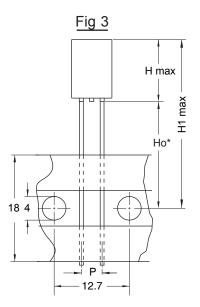
Packing Specification

Reel Taping

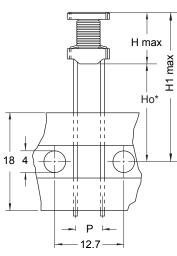
cation Packing code : 51

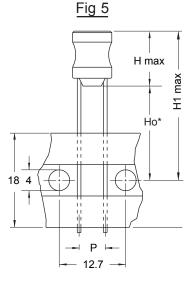












*according	to	IEC	286
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Series	H max	Но	H1 max	Ρ	Fig
07P	12.5	16	28	5	1
07P/F	10.5	18	32.2	3.5	3
09P	13.5	18	32.2	5	2
09P/F	13.4	18	32.2	5	3
07HCP & 07HVP	10	18	32.2	5	4
07HCP/T & 07HVP/T	10.5	18	32.2	5	5