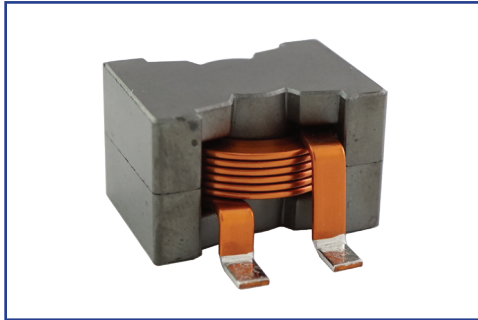


HIGH CURRENT HELICAL EDGE WOUND (HEW™) FLAT WIRE INDUCTOR



HWIA2918S SERIES



- High Current HEW™ Inductor in low-profile compact form
- Very low DCR
- True 30 Amp handling capability on the wire (at high “L”, Isat is more critical)
- Dummy 3rd pin for mounting stability
- Operating Temperature -40°C to +180°C
- Terminations Lead - RoHS compliant tin-silver over copper
- Custom Design Available

ELECTRICAL PARAMETERS @ 25°C

Part Number	INDUCTANCE ¹ (μH) ±10%	DCR ² (mΩ)		Isat ³ (Amp) Typical			I _{rms} ⁴ (Amp) Typical		SRF ⁵ (MHz) Typical
		Nom	Max	10% Drop	20% Drop	30% Drop	20°C Rise	40°C Rise	
HWIA2918-028A-3R3S	3.30	2.40	2.70	95.0	>102	>102	20	28	33.5
HWIA2918-028A-4R7S	4.70	2.40	2.70	63.0	68.0	70.0	20	28	28.0
HWIA2918-028A-6R8S	6.80	2.40	2.70	44.0	48.0	50.0	20	28	22.0
HWIA2918-028A-100S	10.00	2.40	2.70	30.0	32.0	34.0	20	28	15.8
HWIA2918-020A-150S	15.00	2.40	2.70	20.0	21.5	22.5	20	28	13.0

Note:

1. Inductance measured at 500 kHz, 0.1 Vrms, 0 Adc on Agilent/HP 4284A LCR meter or Equivalent
2. DCR measured on GW Instek GOM-802 Microhmmeter or Equivalent.
3. DC Current at 25°C resulting in % drop of inductance from zero current. Isat is the more critical current specification when less than I_{rms}.
4. Current that causes a specified temperature rise in an inductor from 25°C ambient. This specification is for reference only as the actual Temperature Rise will depends on the type of wires used and the cooling available (convection via airflow, or conduction through mounting to heat sink). The actual Temperature Rise will be much lower as the flat wire has greater surface for heat dissipation under power.
5. SRF measured using Agilent/HP 4395A network analyzer and an Agilent/HP 43961A test fixture.

Revised 08/31/2016

Product performance is limited to specified parameters. Data is subject to change without prior notice.

Tel: 310-325-1043
Fax: 310-325-1044

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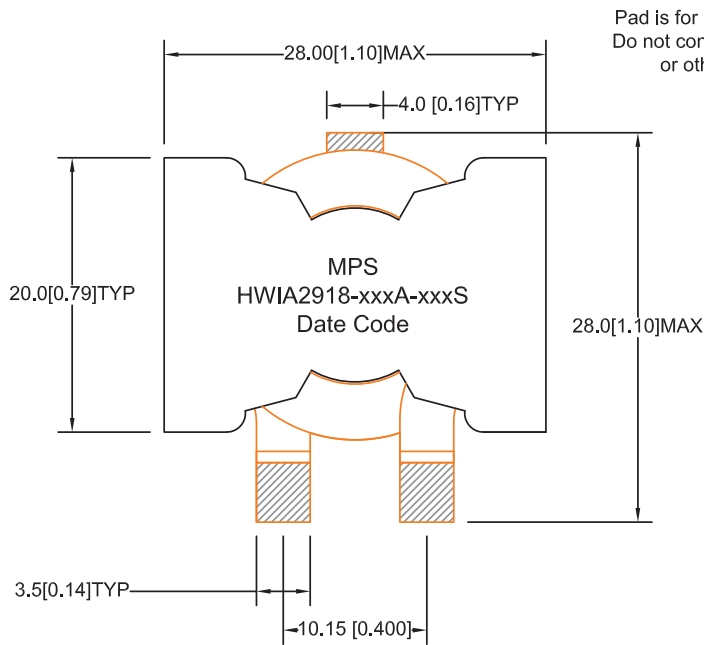


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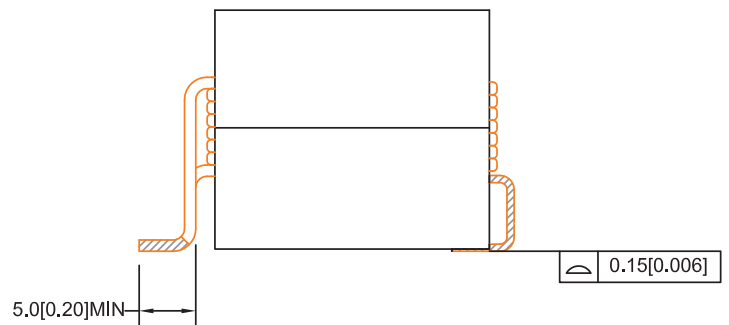
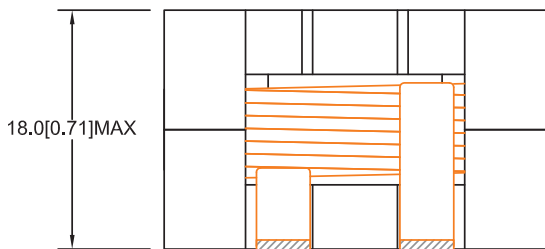
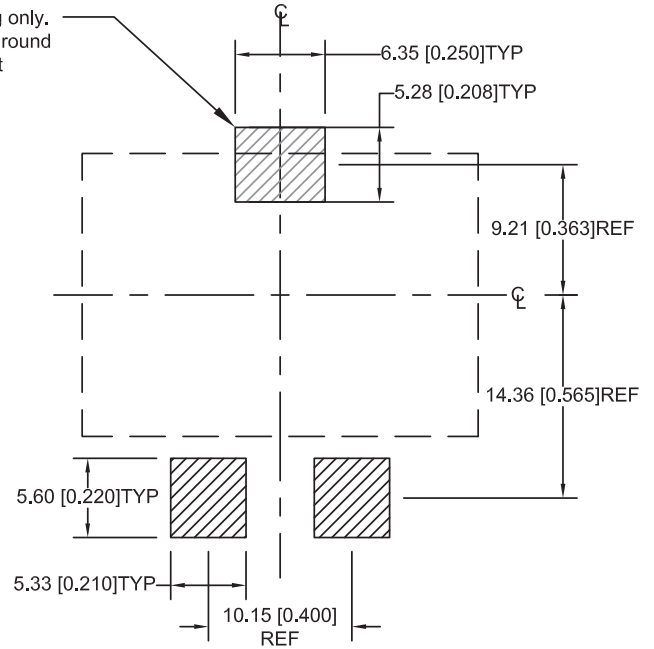
DIMENSIONS

Dimensions: mm[inch]

Recommended PCB Layout



Pad is for mounting only.
Do not connect to ground
or other circuit



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