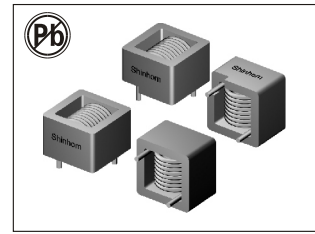


ON-BOARD TYPE HIGH CURRENT POWER INDUCTORS

HR 118S, HR 1320 SERIES



FEATURES:

- Lowest Height (9.0mm/max)(HR 118S Series) (10.0mm/max)(HR 1320 Series) in this package footprint.
- Shielded Construction.(HR Series)
- Lowest DCR/ μ H, in this package size.
- Handles High Transient Current Spikes Without Saturation.
- The Products Contain no Lead and also Support Lead-free Soldering.

OPTIONS:

- Tape & Reel is Standard Bulk packaging Available for Smaller Quantities
- Tolerance: $M = \pm 20\%$ Standard, Tighter Tolerances Available

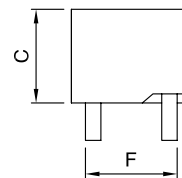
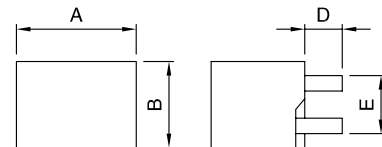
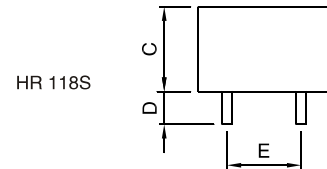
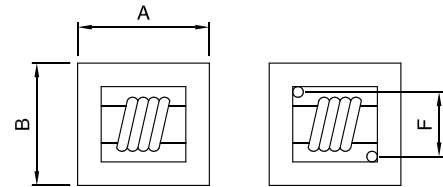
COMMON APPLICATIONS:

- Power Line Filter for DC-DC Converter.
- Switching Power Supplier.
- Personal Computers and Other handheld Electronic Equipment.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance Lo(μ H)	Test Frequency (Hz)Max	DCR ($m\Omega$)Max	I _{rms} (A) max.	I _{sat} (A) max.
HR 118S-2R0M	2.00 \pm 20%	0.25V/100K	3.5	15	20
HR 1320-R40M	0.40 \pm 20%	0.25V/100K	1.0	38	48
HR 1320-R50M	0.50 \pm 20%	0.25V/100K	1.3	35	45

PHYSICAL CHARACTERISTICS



HR 1320 series

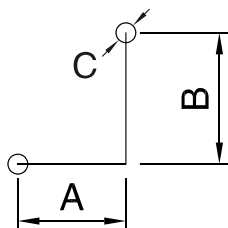
TECHNICAL INFORMATION

1. Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
2. Heat Rated Current(I_{rms}) will cause the coil temperature rise Approximately $\Delta T = 60^\circ\text{C}$ without core loss.
3. I_{sat}(A) will cause L₀ to drop approximately 20%.
4. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
5. Operating Temperature & Storage Temperature: $-40^\circ\text{C} - +105^\circ\text{C}$.

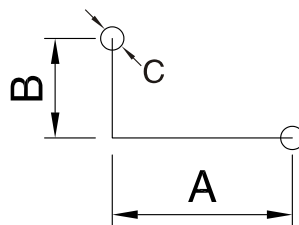
Dimensions(mm)

Part Number	A	B	C	D	E	F
HR 118S-2R0M	11.30max	11.30max	8.0max	3.4 \pm 0.5	7.5 \pm 0.5	7.5 \pm 0.5
HR 1320 series	12.80 \pm 0.2	9.20 \pm 0.2	10.0max	4.5 \pm 0.5	6.2 \pm 0.2	10.0 \pm 0.2

SOLDERING AND MOUNTING



HR 118S



HR 1320 series

Size	Land Patterns For Reflow Soldering		
	A(mm)	B(mm)	C(mm)
HR 118S	6.0 \pm 0.5	7.3 \pm 0.5	1.0max
HR 1320 series	8.5 \pm 0.2	4.7 \pm 0.2	2.0 \pm 0.2

Note: All specifications subject to change without notice.