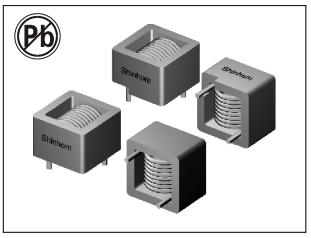
ON–BOARD TYPE HIGH CURRENT POWER INDUCTORS

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/μH,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=±20% Standard, Tighter Tolerances Available

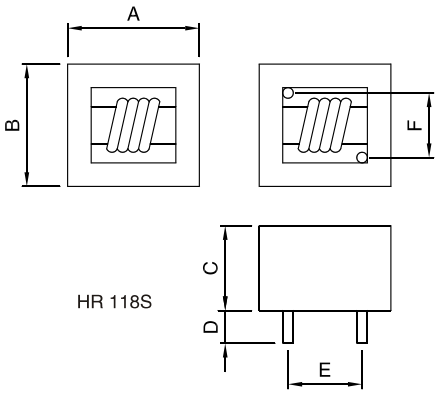
COMMON APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance Lo(uH)	Test Frequency (Hz)Max	DCR (mΩ)Max	Irms (A) max.	Isat (A) max.
HR 118S–2R0M	2.00±20%	0.25V/100K	3.5	15	20
HR 1320–R40M	0.40±20%	0.25V/100K	1.0	38	48
HR 1320–R50M	0.50±20%	0.25V/100K	1.3	35	45

PHYSICAL CHARACTERISTICS

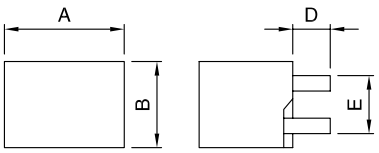


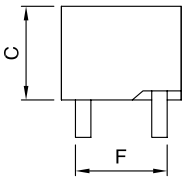
TECHNICAL INFORMATION

1.Testing Instrument: L: HP4192A, CH1302, CH3320, CH3320S LCR METER / Ddc: Agilent33420A Micro OHMMETER.
2. Heat Rated Current(Irms) will cause the coil temperature rise Approximately ΔT=60℃ without core loss.
3. Isat(A) will cause L0 to drop approximately 20%.
4. The part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions.
5. Operating Temperature & Storage Temperature: –40℃ – +105℃.

Dimensions(mm)

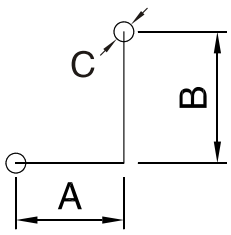
Part Number	A	B	C	D	E	F
HR 118S–2R0M	11.30max	11.30max	8.0max	3.4±0.5	7.5±0.5	7.5±0.5
HR 1320 series	12.80±0.2	9.20±0.2	10.0max	4.5±0.5	6.2±0.2	10.0±0.2



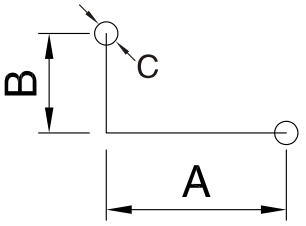


HR 1320 series

SOLDERING AND MOUNTING



HR 118S



HR 1320 series

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

Note:All specifications subject to change without notice.