



HR118S, HR1320 SERIES

Shielded SMD Power Inductors

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/ Li H,in this package size.
- Handles High Transient Current Spikes Without Saturation.
- The Products Contain no Lead and also Support Lead-free Soldering.

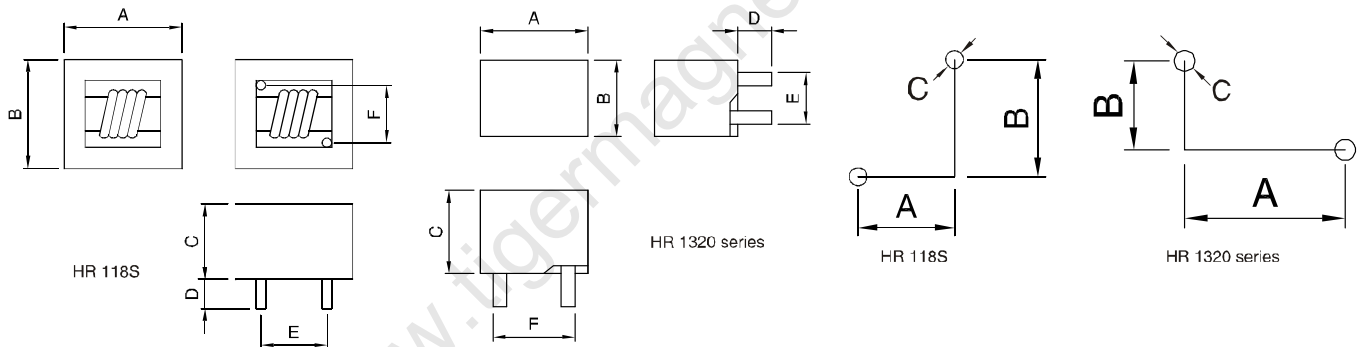
OPTIONS

- Tape & Reel is Standard
- Bulk packaging Available for Smaller Quantities
- Tolerance:M= ± 20% Standard
- Lower Tolerances Available

APPLICATIONS

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

Part Number	Inductance L(μH)	Test Freq. (Hz) max.	DCR (mOhm) max.	Irms (A) max.	Usat (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



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 $\Delta T=60^{\circ}\text{C}$ without core loss.
3. Isat(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: $-40^{\circ}\text{C} - +105^{\circ}\text{C}$.

Size	Land Patterns For Reflow Soldering		
	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

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

Dimensions(mm)