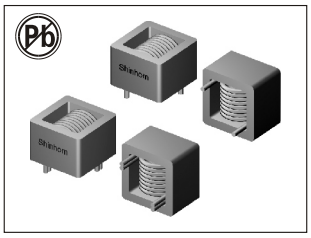


ON–BOARD TYPE HIGH CURRENT POWER INDUCTORS

HR 129N, HR 1310 SERIES

FEATURES:

- Lowest Height (9.0mm/max)(HR 129N Series) (10.0mm/max)(HR 1310 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 129N–R60M	0.60±20%	0.25V/100K	1.0	30	40
HR 1310–R50M	0.50±20%	0.25V/100K	0.85	45	50

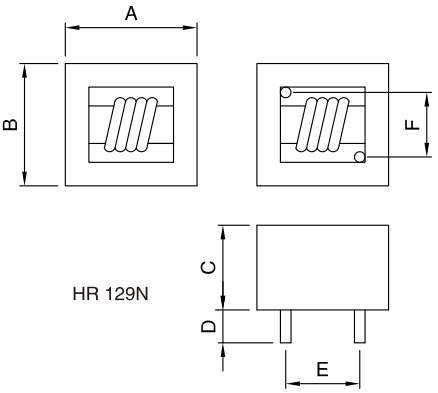
TECHNICAL INFORMATION

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℃.

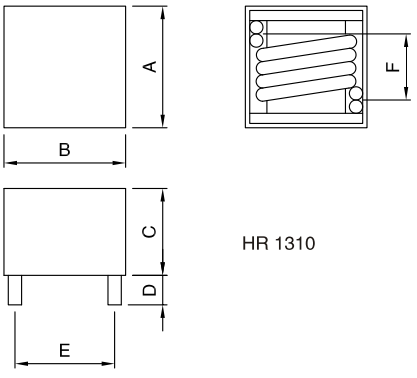
Dimensions(mm)

Part Number	A	B	C	D	E	F
HR 129N–R60M	13.0max	14.0max	9.0max	3.5±0.5	6.0±0.5	7.3±0.5
HR 1310–R50M	14.0max	14.0max	10.0max	3.4±0.5	11.5±0.5	5.5±0.5

PHYSICAL CHARACTERISTICS

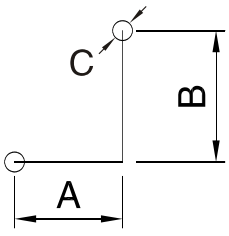


HR 129N

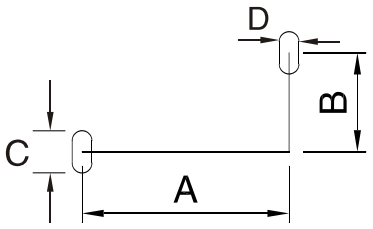


HR 1310

SOLDERING AND MOUNTING



HR 129N



HR 1310

	Land Patterns For Reflow Soldering			
Size	A(mm)	B(mm)	C(mm)	D(mm)
HR 129N–R60M	6.0±0.5	7.3±0.5	2.0±0.5	—
HR 1310–R50M	11.5±0.5	5.5±0.5	2.7±0.5	1.6±0.5

Note:All specifications subject to change without notice.