



# RL-3316-HC RL-5022-HC

## UNSHIELDED ULTRA HIGH CURRENT



### FEATURES

- Low cost, high performance inductor.
- Super low resistance with high current rating.

### APPLICATIONS

Excellent as DC-DC Converter used in notebook computers, PDA, step-up or step-down converters.

### MATERIALS CONSTRUCTION

- Core: Ferrite DR Core
- Base: LCP E4008
- Wire: Enameled Copper Wire
- Terminal: Tinned Copper Plate
- Adhesive: Epoxy Resin

### GENERAL SPECIFICATIONS

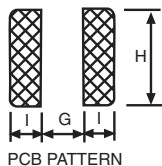
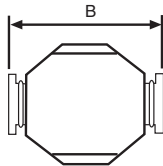
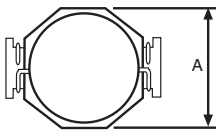
$I_{ms}$  based on temperature rise: 40°C Max RL-3316-HC and RL-5022-HC

$I_{sat}$  based on L /LOA = 10% Typical for RL-3316-HC and RL-5022-HC

Operating Temperature: -40°C to +85°C

Storage Temperature: -25°C to +105°C

Resistance to solder heat: 260°C for 10 seconds



### TAPE AND REEL PACKAGING

Part Number	Pieces per reel	Plastic reel size
RL-3316-HC	600	13"
RL-5022-HC	250	13"

### MECHANICAL DIMENSION (m/m)

Part Number	A	B	C	G (Ref)	H (Ref)	I (Ref)
RL-3316-HC	9.91	13.50	6.35	8.36	5.00	1.80
RL-5022-HC	16.26	22.35	8.00	14.35	8.64	3.18



## RENCO ELECTRONICS, INC.

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Part Number	Inductance ( $\mu$ H)	Testing Freq. (Hz)	SRF (MHz) Typ.	DCR ( $\Omega$ ) Max.	I <sub>ms</sub> (A)	I <sub>sat</sub> (A)
RL-3316-HC-R33M	0.33 $\pm$ 20%	0.1V / 100K	300	0.002	16.0	20.0
RL-3316-HC-R68M	0.68 $\pm$ 20%	0.1V / 100K	200	0.005	12.0	13.0
RL-3316-HC-1R0M	1.0 $\pm$ 20%	0.1V / 100K	100	0.006	10.0	11.0
RL-3316-HC-1R5M	1.5 $\pm$ 20%	0.1V / 100K	90	0.008	9.0	9.0
RL-3316-HC-2R2M	2.2 $\pm$ 20%	0.1V / 100K	90	0.011	7.4	7.8
RL-3316-HC-2R7M	2.7 $\pm$ 20%	0.1V / 100K	65	0.012	6.6	7.0
RL-3316-HC-3R3M	3.3 $\pm$ 20%	0.1V / 100K	65	0.014	5.9	6.4
RL-3316-HC-4R7M	4.7 $\pm$ 20%	0.1V / 100K	45	0.018	4.8	5.4
RL-3316-HC-5R6M	5.6 $\pm$ 20%	0.1V / 100K	40	0.022	4.6	5.0
RL-3316-HC-6R8M	6.8 $\pm$ 20%	0.1V / 100K	36	0.027	4.4	4.6
RL-3316-HC-8R2M	8.2 $\pm$ 20%	0.1V / 100K	28	0.032	4.0	4.0
RL-3316-HC-100M	10.0 $\pm$ 20%	0.1V / 100K	25	0.038	3.9	3.8

Other non standard inductance values are available to meet your exact requirements.

Note:

1. Inductance measured by LCR Meter HP 4294/HP4291.
2. DCR measured by Milliohm meter CH 502 AC.
3. SRF measured by Network analyzer HP 4294/HP4291.

Part Number	Inductance ( $\mu$ H)	Testing Freq. (Hz)	SRF (MHz) Typ.	DCR ( $\Omega$ ) Max.	I <sub>ms</sub> (A)	I <sub>sat</sub> (A)
RL-5022-HC-R78M	0.78 $\pm$ 20%	0.1V / 100K	156	0.0026	15.0	30
RL-5022-HC-1R5M	1.5 $\pm$ 20%	0.1V / 100K	100	0.004	15.0	25
RL-5022-HC-2R2M	2.2 $\pm$ 20%	0.1V / 100K	75	0.006	12.0	20
RL-5022-HC-3R3M	3.3 $\pm$ 20%	0.1V / 100K	60	0.008	10.0	17
RL-5022-HC-3R9M	3.9 $\pm$ 20%	0.1V / 100K	55	0.010	9.0	15
RL-5022-HC-4R7M	4.7 $\pm$ 20%	0.1V / 100K	40	0.014	8.4	13
RL-5022-HC-6R0M	6.0 $\pm$ 20%	0.1V / 100K	35	0.017	7.5	12
RL-5022-HC-7R8M	7.8 $\pm$ 20%	0.1V / 100K	35	0.018	7.5	11
RL-5022-HC-100M	10.0 $\pm$ 20%	0.1V / 100K	28	0.026	6.0	10
RL-5022-HC-150M	15.0 $\pm$ 20%	0.1V / 100K	20	0.032	4.4	8

Other non standard inductance values are available to meet your exact requirements.

Note:

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