



Construction Wire



Wire



Outline:

- 12.3 x 12.3mm Max.(L x W),8.05mm Max.Height
- Carrier tape packing, suitable for SMT process
- Low DCR and excellent current handling
- Magnetically shielded construction
- In addition to the standard versions of inductors shown here custom inductors are available to meet your exact requirements

Features:

- Core material:Ferrite
- Core and winding loss:
See www.codaca.com/en/PowerInductorLossComparison
- Environmental: RoHS, Reach compliant ,Halogen free
- Weight:4.09g
- Moisture Sensitivity:Level (MSL) 1
(unlimited floor life at <30 °C / 85% relative humidity).
- Operating temperature range: -40°C ~ +125°C
(including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C

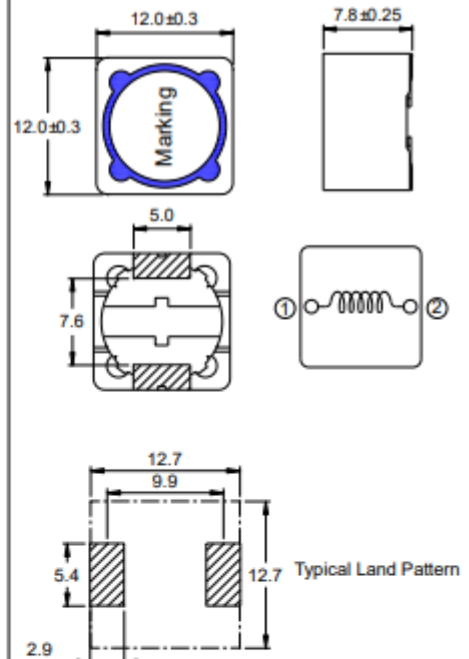
Application:

- Ideally used in Notebook PC,LCD T,Game machine STB
- buck converter,network communication equipment, and etc

1 Electrical Characteristics

Part No.	Inductance (μH) $\times 1$	D.C.R. (m Ω)		Isat	Irms
		Typical	Max	(A) $\times 2$	(A) $\times 3$
SPRH127-1R4N	1.40 $\pm 30\%$	6.37	7.64	26.20	11.0
SPRH127-2R2N	2.20 $\pm 30\%$	9.54	11.5	21.30	9.10
SPRH127-3R3N	3.30 $\pm 30\%$	11.2	13.4	18.30	8.40
SPRH127-4R7N	4.70 $\pm 30\%$	13.0	15.6	15.20	7.80
SPRH127-5R6N	5.60 $\pm 30\%$	14.7	17.6	13.70	7.30
SPRH127-6R8N	6.80 $\pm 30\%$	16.2	19.4	12.70	7.00
SPRH127-8R2N	8.20 $\pm 30\%$	18.0	21.6	11.50	6.60
SPRH127-100M	10.0 $\pm 20\%$	19.8	23.7	10.42	6.30
SPRH127-120M	12.0 $\pm 20\%$	21.7	26.1	9.61	6.00
SPRH127-150M	15.0 $\pm 20\%$	28.7	34.4	8.40	5.10
SPRH127-180M	18.0 $\pm 20\%$	31.2	37.4	7.60	5.00
SPRH127-220M	22.0 $\pm 20\%$	39.0	46.8	6.90	4.50
SPRH127-270M	27.0 $\pm 20\%$	44.1	52.9	6.22	4.20
SPRH127-330M	33.0 $\pm 20\%$	56.3	67.5	5.68	3.70
SPRH127-390M	39.0 $\pm 20\%$	62.7	75.2	5.14	3.50
SPRH127-470M	47.0 $\pm 20\%$	71.5	85.8	4.60	3.30
SPRH127-560M	56.0 $\pm 20\%$	83.4	100	4.46	3.00
SPRH127-680M	68.0 $\pm 20\%$	103	123	3.90	2.70
SPRH127-820M	82.0 $\pm 20\%$	119	143	3.51	2.50
SPRH127-101M	100 $\pm 20\%$	137	164	3.36	2.40
SPRH127-121M	120 $\pm 20\%$	182	218	2.91	2.10
SPRH127-151M	150 $\pm 20\%$	206	247	2.60	1.90
SPRH127-181M	180 $\pm 20\%$	250	300	2.57	1.75
SPRH127-221M	220 $\pm 20\%$	300	360	2.22	1.63
SPRH127-271M	270 $\pm 20\%$	380	456	1.94	1.40
SPRH127-331M	330 $\pm 20\%$	467	560	1.79	1.20
SPRH127-391M	380 $\pm 20\%$	525	630	1.63	1.10
SPRH127-471M	470 $\pm 20\%$	683	819	1.48	1.00
SPRH127-561M	560 $\pm 20\%$	767	920	1.36	0.98
SPRH127-681M	680 $\pm 20\%$	986	1,183	1.25	0.90
SPRH127-821M	820 $\pm 20\%$	1,172	1,406	1.16	0.80
SPRH127-100M	1000 $\pm 20\%$	1,322	1,586	1.01	0.70

2 Product Dimensions (mm)



All data is tested on 25°C ambient temperature

1. Inductance measure condition at 100kHz,0.1V
2. Isat:the actual value of DC current when the Inductance decrease 20% of its initial value
3. Irms:the actual value of DC current when the the temperature rise is $\Delta T 40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$)