

Type:SHCQ85
◆ Product Description

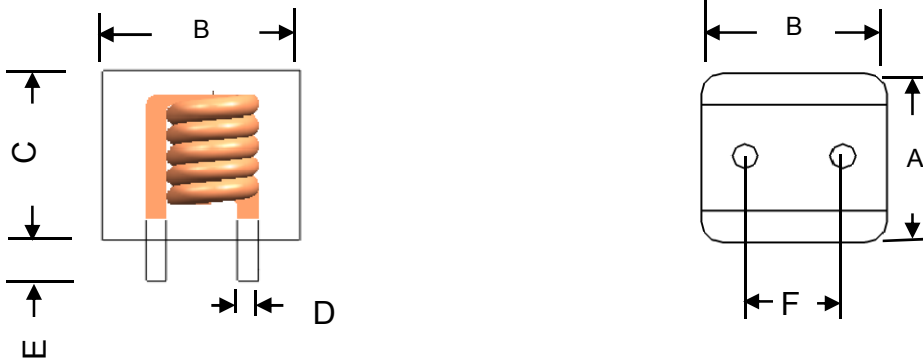
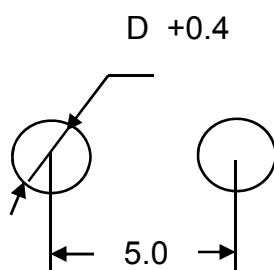
- 9.0×9.0mm Max.(L×W),8.0mm Max. Height.
- Inductance Range: 0.10~4.70 μ H
- In addition to the standards versions shown here,
- custom inductors are also available to meet your exact requirements.


◆ Feature

- Shielded construction
- High current rating
- High frequency range up to 1.0 MHz
- Very low DC resistance
- All lead-free (RoHS)

◆ Application

- Motherboards for laptop and desktop computers.
- DC/DC converter in distributed power systems or VRM applications.
- Inductor for general purpose use.

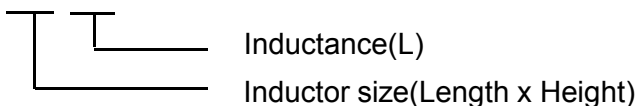
◆ Dimensions (mm)

◆ Land Pattern (mm)


Type:SHCQ85
◆ Specification

Suntek Part Number	System code	LO Inductance (μH) $\pm 20\%$ @OA	A	B	C	D	E	F	DCR($\text{m}\Omega$)		Heat Rating	Saturation
			mm	mm	mm	mm	mm	mm	[Typical]	[Max]	Current	Current
			± 0.5	± 0.5	[Max]	± 0.2	± 0.5	± 0.4			Idc(Amp)	Isat(Amp)
											Typical	Typical
SHCQ85-R00M		0.10MAX	8.50	8.50	8.00	0.90	3.40	5.00	0.43	0.52	N/A	N/A
SHCQ85-R10M		0.10	8.50	8.50	8.00	0.90	3.40	5.00	0.90	1.10	29.0	50.0
SHCQ85-R33M		0.33	8.50	8.50	8.00	0.90	3.40	5.00	1.20	1.45	24.5	38.0
SHCQ85-R36M		0.36	8.50	8.50	8.00	0.90	3.40	5.00	1.20	1.45	24.5	30.0
SHCQ85-R47M		0.47	8.50	8.50	8.00	0.90	3.40	5.00	2.00	2.40	19.0	30.0
SHCQ85-R56M		0.56	8.50	8.50	8.00	0.90	3.40	5.00	2.00	2.40	19.0	28.0
SHCQ85-R68M		0.68	8.50	8.50	8.00	0.80	3.40	5.00	3.00	3.60	15.5	25.0
SHCQ85-R80M		0.80	8.50	8.50	8.00	0.80	3.40	5.00	3.50	4.10	15.5	23.0
SHCQ85-1R0M		1.00	8.50	8.50	8.00	0.80	3.40	5.00	3.50	4.10	14.5	21.0
SHCQ85-1R2M		1.20	8.50	8.50	8.00	0.80	3.40	5.00	3.50	4.10	14.5	21.0
SHCQ85-1R5M		1.50	8.50	8.50	8.00	0.70	3.40	5.00	5.80	7.00	11.5	18.0
SHCQ85-2R2M		2.20	8.50	8.50	8.00	0.70	3.40	5.00	7.50	9.00	10.0	16.0
SHCQ85-2R8M		2.80	8.50	8.50	8.00	0.70	3.40	5.00	8.50	10.20	9.5	15.0
SHCQ85-3R3M		3.30	8.50	8.50	8.00	0.70	3.40	5.00	9.00	11.00	9.2	14.0
SHCQ85-4R7M		4.70	8.50	8.50	8.00	0.70	3.40	5.00	12.00	14.50	8.0	12.0

※Description of Part Name

SHCQ85-R47M


Note:

1. Test condition @ 200KHz, 0.1Vrms, 25°C ambient
2. Idc: DC current(A) that will cause an approximate ΔT of 40 °C
3. Isat: DC current(A) that will cause Lo to drop approximately 20%
4. Operating Temperature Range: -25 °C to +125 °C