

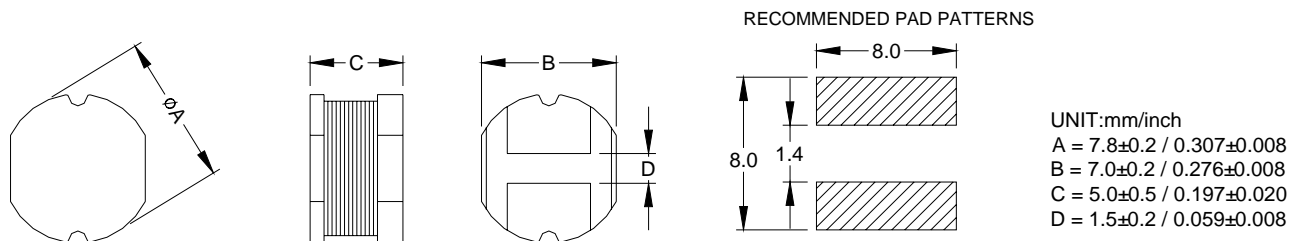
# SMT Power Inductor

## SI 85 Type

### Features

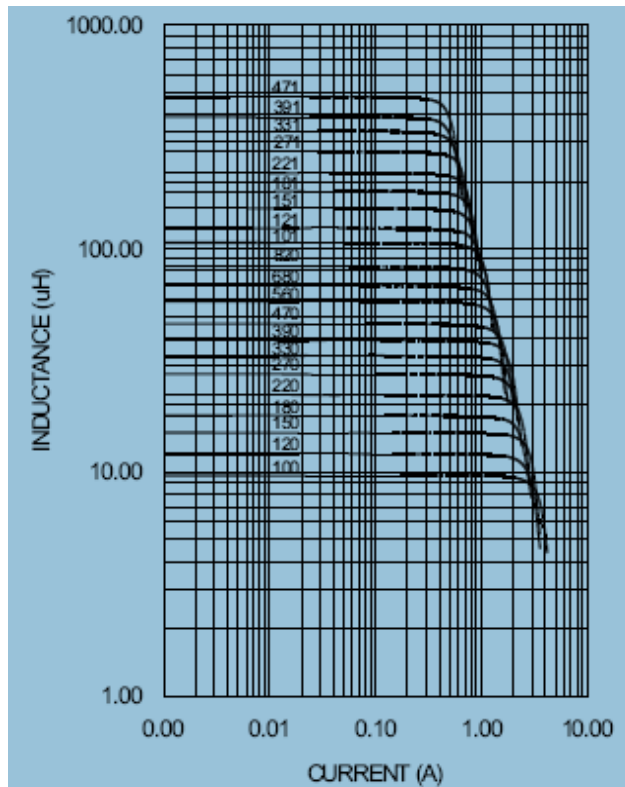
- RoHS compliant.
- Low profile (5.5mm max.Height)), SMD type.
- Unshielded.
- Self-leads,suitable for high density mounting.
- High energy storage and low DCR
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.

### Mechanical Dimension:



**Electrical Characteristics:** 25 , 100KHz, 0.1V for 0.8~6.8uH. 1KHz,1.0V for 10~1000uH

PART NO.	L <sup>1</sup> (uH)	DCR ( ) MAX	I <sub>rated</sub> <sup>2</sup> (A)
SI85-100K	10.0	0.0700	2.30
SI85-120K	12.0	0.0800	2.00
SI85-150K	15.0	0.0900	1.80
SI85-180K	18.0	0.1000	1.60
SI85-220K	22.0	0.1100	1.50
SI85-270K	27.0	0.1200	1.40
SI85-330K	33.0	0.1300	1.30
SI85-390K	39.0	0.1600	1.20
SI85-470K	47.0	0.1800	1.10
SI85-560K	56.0	0.2400	0.94
SI85-680K	68.0	0.2800	0.85
SI85-820K	82.0	0.3700	0.78
SI85-101K	100.0	0.4300	0.72
SI85-121K	120.0	0.4700	0.66
SI85-151K	150.0	0.6400	0.58
SI85-181K	180.0	0.7100	0.51
SI85-221K	220.0	0.9600	0.49
SI85-271K	270.0	1.1100	0.42
SI85-331K	330.0	1.2600	0.40
SI85-391K	390.0	1.7700	0.36
SI85-471K	470.0	1.9600	0.34
SI85-561K	560.0	2.1600	0.31
SI85-102K	1000.0	3.8500	0.26



- 1.Tolerance of inductance±15% for 0.8~6.8uH, ±10% for 10~1000uH.
- 2.I<sub>rated</sub> is the DC current which cause the inductance drop less than 10% of its nominal inductance without current and the surface temperature of the part increase less than 45 .
- 3.Operating temperature:-20 to 105 (including self-temperature rise).