

New Product

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SHC7685**

FEATURES

- RoHS Compliant
- A great replacement for those bulky "through-hole" power inductors
- Well suited for use in ruggedized computers, high power appliances and digital lighting systems

ELECTRICAL SPECIFICATIONS

- Inductance range 0.1uH to 0.2uH
- Test condition 0.25Vrms @ 200kHz
- Test equipment Quadtech 1750 LCR meter

PHYSICAL SPECIFICATIONS

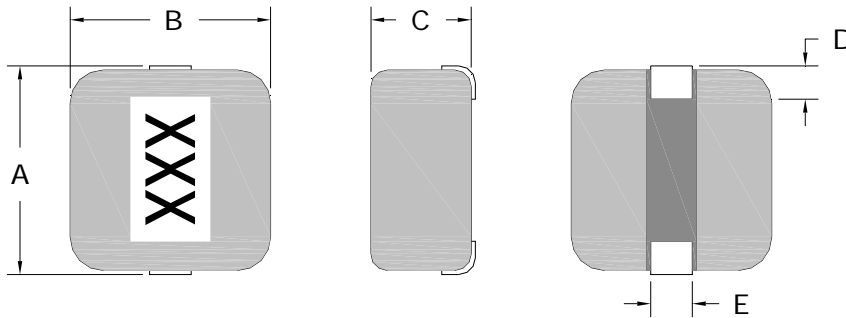
- Operating temp. -55°C to +125°C
- Core Ferrite
- Packaging T & R 900 pieces per reel
- Tape & reel spec. Tape 16 mm embossed carrier
- Reel 330 mm dia

SPECIFICATIONS

Part Number	L(uH)	Tol % ±	DCR (ohms) max	Rated Current (A) (Note 1)	Saturation Current (A) (Note 2)
SHC7685-R10Y	0.10	30	0.0005	30	37
SHC7685-R15Y	0.15	30	0.0005	24	30
SHC7685-R20Y	0.20	30	0.0005	19	20

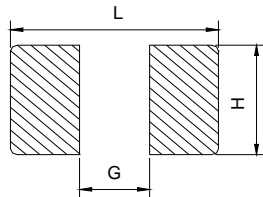
Dimensions in millimeters

- Length A 7.2 max
- Width B 6.8 max
- Height C 5.0 max
- Terminal length D 1.5 ± 0.5
- Terminal width E 2.5 ± 0.5



Suggested PCB layout

- G = 2.5
- H = 4.5
- L = 7.5



1. Based on ΔT approximately 40°C.
2. Based on ΔL of 30% typical

All test data based on 25°C ambient. Part temperature (ambient+temp rise) must not exceed 125°C under worst case operating conditions. Circuit design, components, PCB trace size and thickness, airflow and other cooling provisions all effect the part temperature.