

New Product

**SURFACE MOUNT
SHIELDED POWER INDUCTOR
SERIES SSI704**

FEATURES

- RoHS compliant
- High current capacity
- Low profile and footprint

ELECTRICAL SPECIFICATIONS

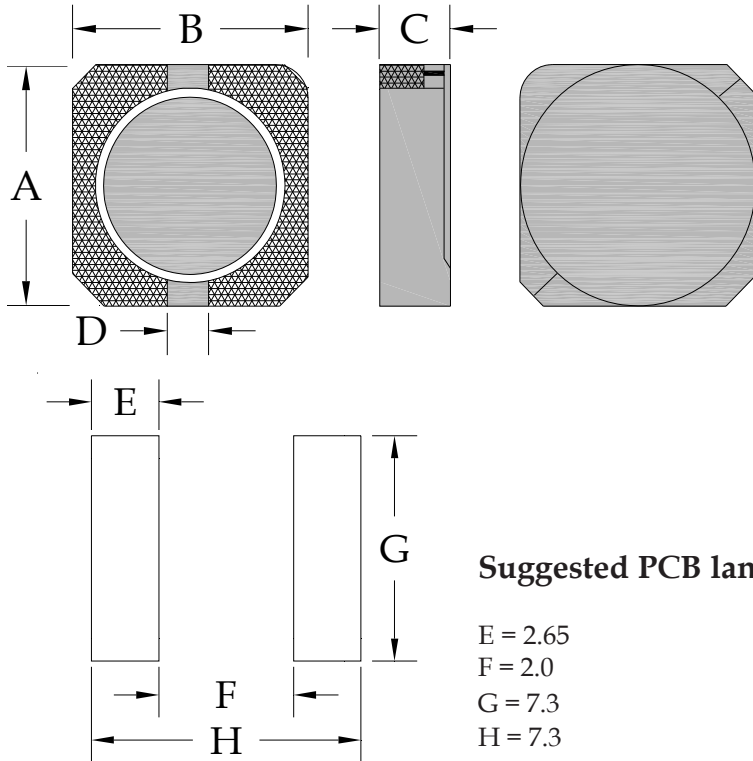
- Inductance range 3.3uH to 1000uH
- Test condition 100mVrms, 10kHz
- Test equipment Quadtech 1750 LCR Meter

PHYSICAL SPECIFICATIONS

- Operating temp. -25°C to +105°C
- Core Ferrite
- Packaging T & R 1000 pieces per reel
- Tape & reel spec. Tape 16 mm embossed carrier
 Reel 330 mm

Dimensions in millimeters

- Length A 7.0 max
- Width B 7.0 max
- Height C 4.0 max
- Terminal pitch D 2.0 ref



Suggested PCB land pattern

- E = 2.65
- F = 2.0
- G = 7.3
- H = 7.3

Notes:

1. Based on ΔL of 35% max or ΔT of 40°C max, whichever occurs first.

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

SPECIFICATIONS

Part Number	L(uH)	Tol ± %	DCR (ohms) max	Rated Current (A) (Note 1)
SSI704-3R3Y	3.3	30	0.020	3.5
SSI704-5R0Y	5.0	30	0.024	2.9
SSI704-6R2Y	6.2	30	0.027	2.5
SSI704-7R4Y	7.4	30	0.031	2.3
SSI704-8R7Y	8.7	30	0.034	2.2
SSI704-100Y	10	30	0.042	2.0
SSI704-120Y	12	30	0.053	1.7
SSI704-150Y	15	30	0.057	1.6
SSI704-180Y	18	30	0.092	1.5
SSI704-220Y	22	30	0.096	1.3
SSI704-270Y	27	30	0.109	1.2
SSI704-330Y	33	30	0.150	1.1
SSI704-390Y	39	30	0.160	1.0
SSI704-470Y	47	30	0.170	0.95
SSI704-560Y	56	30	0.220	0.85
SSI704-680Y	68	30	0.240	0.75
SSI704-820Y	82	30	0.330	0.70
SSI704-101Y	100	30	0.390	0.65
SSI704-121M	120	20	0.495	0.59
SSI704-151M	150	20	0.58	0.54
SSI704-181M	180	20	0.74	0.49
SSI704-221M	220	20	0.89	0.43
SSI704-271M	270	20	1.29	0.40
SSI704-331M	330	20	1.70	0.37
SSI704-391M	390	20	1.75	0.34
SSI704-471M	470	20	2.20	0.32
SSI704-561M	560	20	2.85	0.29
SSI704-681M	680	20	3.20	0.25
SSI704-821M	820	20	4.05	0.22
SSI704-102M	1000	20	5.70	0.20