

### TSC0601 TYPE

- \* Frequency Range:100KHz
- \* Inductance Range:1.2-330uH

### Features

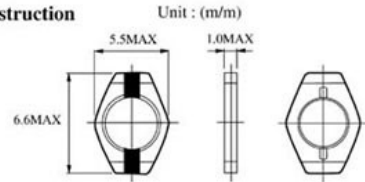
- \* Low profile (1.0mm)
- \* Ideal for a variety of DC-DC converter inductor applications
- \* Available on tape and reel for auto-mounting
- \* Suitable for reflow soldering



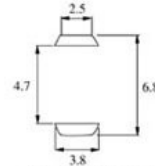
### Standard Parts Selection Guide

- \* Inductance is measured by LCR-meter 4263B(HP) or equivalent.
- \* Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, or coil temperature to rise by 40°C whichever is smaller. (Reference ambient temperature 20°C).

### Construction



### Recommended Patterns



### LAND PATTERNS

### Electrical Specification

Unit : ( m/m)

Part number	L <sub>0</sub> (μH)	Inductance Tolerance %	DCR max. (Ohms)	Isat <sup>3</sup> (A)	I <sub>rms</sub> <sup>4</sup> (A)	SRF typ (MHz)
TSC0601-1R2M	1.2	±20%	0.08	2.10	3.60	190
TSC0601-1R5M	1.5	±20%	0.10	1.90	2.80	140
TSC0601-2R2M	2.2	±20%	0.12	1.60	2.40	115
TSC0601-3R3M	3.3	±20%	0.16	1.30	2.00	90
TSC0601-4R7M	4.7	±20%	0.20	1.10	1.70	88
TSC0601-6R8M	6.8	±20%	0.32	0.90	1.20	66
TSC0601-100M	10	±20%	0.41	0.80	1.10	55
TSC0601-150M	15	±20%	0.55	0.65	0.90	42
TSC0601-220M	22	±20%	0.85	0.50	0.83	38
TSC0601-330M	33	±20%	1.30	0.40	0.62	29
TSC0601-470M	47	±20%	1.80	0.36	0.52	22
TSC0601-680M	68	±20%	2.50	0.30	0.35	18
TSC0601-101M	100	±20%	3.50	0.26	0.27	14
TSC0601-151M	150	±20%	5.00	0.18	0.24	12
TSC0601-221M	220	±20%	7.00	0.18	0.23	10
TSC0601-331M	330	±20%	15.00	0.13	0.13	8

1. Tested at 100KHz, 0.1 Vrms, 0 Adc
  2. DC current at which the inductance drops 10%(typ.) from its value without current.
  3. Average current for a 40°C rise above 25°C ambient.
  4. Operating temperature range -40°C to +85°C.
  5. Electrical specifications at 25°C.
- See Qualification Standards section for environmental and test data.

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