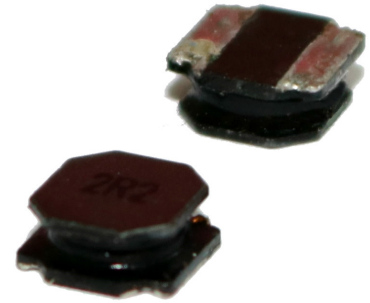


## Resin Shielded Inductor SMD (5.0 X 5.0 X 4.0mm)

### FEATURES

- Resin Shielded construction
- Low DC Resistance
- Low Profile
- Halogen Free RoHS compliant

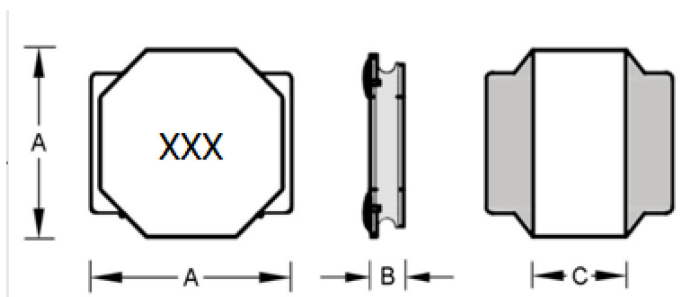


### SPECIFICATION

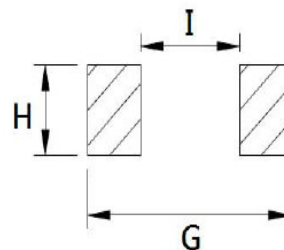
Part No.	Inductance (μH)	DC Resistance (mΩ ±30%)	Rated DC Current (A) Typ.	
			ΔL/L=30%	ΔT=40°C
TRSI5040F-1R0_	1.0	14	7.50	4.60
TRSI5040F-1R5_	1.5	16	7.10	4.40
TRSI5040F-2R2_	2.2	21	5.70	3.70
TRSI5040F-3R3_	3.3	26	4.80	3.50
TRSI5040F-4R7_	4.7	32	4.20	3.20
TRSI5040F-6R8_	6.8	50	3.30	2.40
TRSI5040F-100_	10	70	2.80	2.20
TRSI5040F-150_	15	110	2.30	1.80
TRSI5040F-220_	22	175	1.80	1.40
TRSI5040F-330_	33	250	1.50	1.10
TRSI5040F-470_	47	390	1.20	0.90

- Measurement frequency of Inductance value : at 100KHz, 0.25V
- Test equipment: CH1062A / CH1320
- Inductance tolerance: Letter at end of part number N = ±30% ; M = ±20%

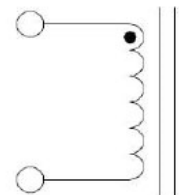
### DIMENSION



### SOLDER PATTERN

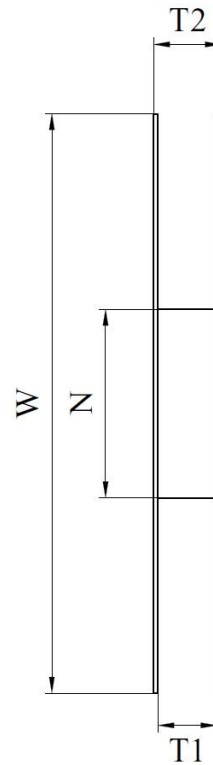
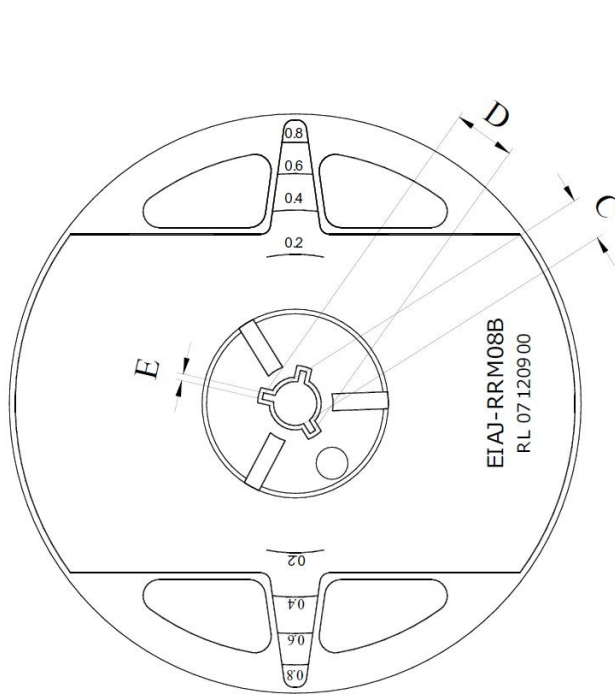


### SCHEMATIC

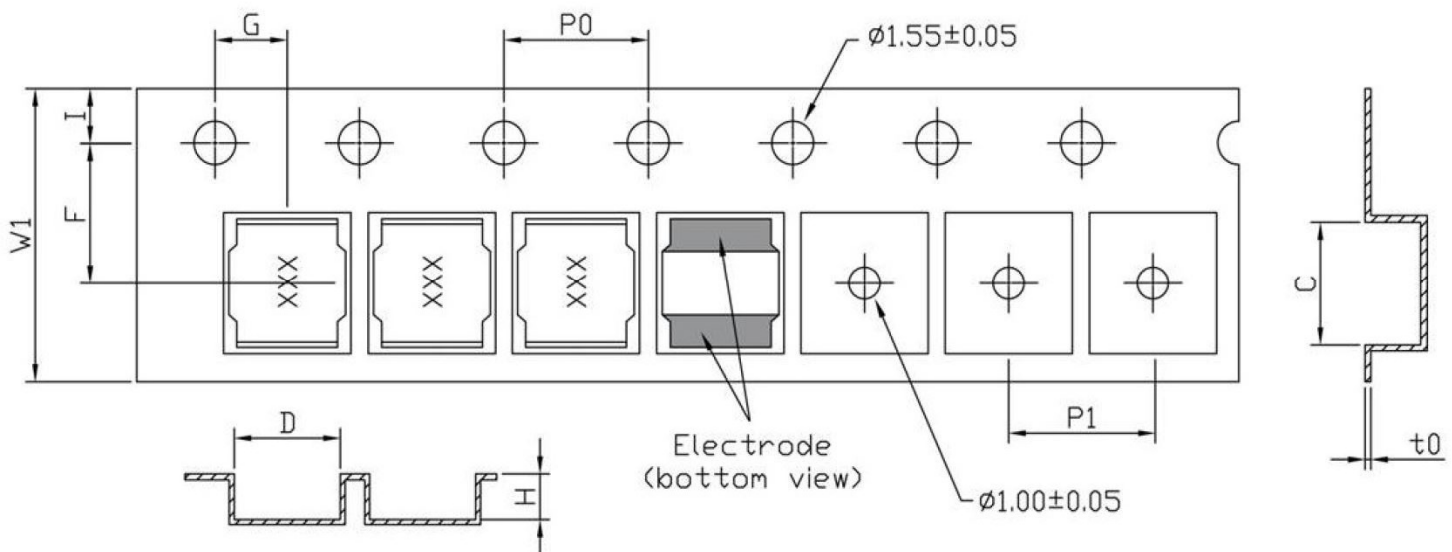


	A	B	C	G	H	I
mm	5.00 ±0.40	4.00 Max	2.40 Ref	5.20	5.20	2.10

**REEL DIMENSIONS (1500 pcs per reel)**



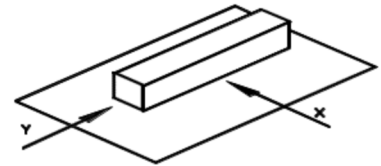
<b>W</b>	330 ±1.0
<b>D</b>	22.4 ±0.2
<b>C</b>	13.5 ±0.2
<b>T1</b>	12.5 ±0.5
<b>N</b>	100.0 ±0.5
<b>T2</b>	17.1 ±0.5
<b>E</b>	2.5 ±0.2



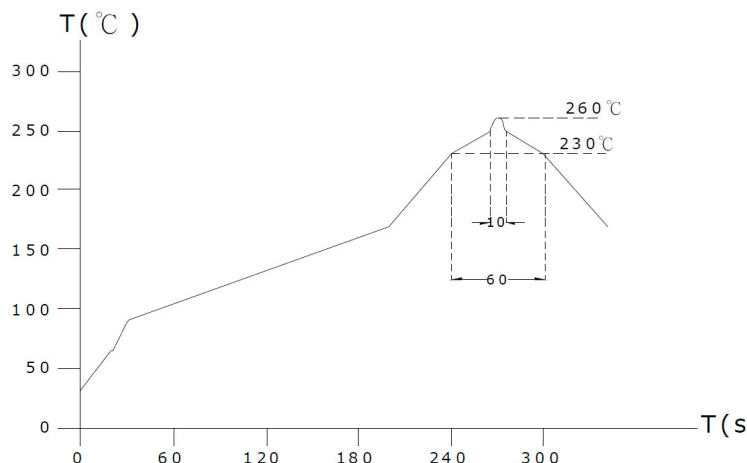
W1	I	F	P0	G	P1	C	t0	D	H
12.00±0.3	1.75±0.1	5.50±0.1	4.00±0.1	2.00±0.1	8.00±0.1	5.30±0.1	0.35±0.05	5.30±0.1	4.10±0.1

## RELIABILITY TEST

1. Operating temperature range  
-40 TO + 125°C (Includes temperature when the coil is heated)
2. External appearance  
On visual inspection, the coil has no external defects.
3. Terminal strength  
After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.  
Terminal should not peel off. (refer to figure at right)  
5.0N 60 sec.
4. Insulating resistance  
Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength  
No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics  
Inductance coefficient  $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$  (-25~+80°C)
7. Humidity characteristics (Moisture Resistance)  
Inductance deviation within  $\pm 5\%$ , after 96 hours in 90~95% relative humidity at  $40 \pm 2^{\circ}\text{C}$  and 1 hour drying under normal condition.
8. Vibration resistance  
Inductance deviation within  $\pm 5\%$ , after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance  
Inductance deviation within  $\pm 5\%$ , after being dropped once with  $981\text{m/s}^2$  (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C, 10 seconds (See recommend reflow)
11. Storage environment  
Temperature: 0°C~35°C; -40°C~125°C (after mounting on PCB)  
Humidity Range: 50% ~ 70% RH
12. Use components within 12 months.  
If 12 months or more have elapsed, check solderability before use.



## LEAD-FREE HEAT ENDURANCE TEST



## LEAD-FREE RECOMMENDED REFLOW

