



Power Inductor SMD (6.8 X 7.3 X 3.0mm)

FEATURES

- Alloy Powder Molding
- Magnetic shielded
- Halogen Free RoHS compliant
- Low DCR
- Low acoustic noise

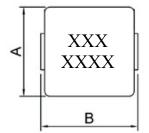


SPECIFICATION

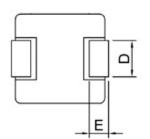
			DC Resistance (mΩ)	Rated DC Curr	rent (A) Typ.
Part No.	Inductance (µH)	Tolerance (%)	Max. (Typ.)	ΔL/L=30%	ΔT=40°C
TMPIC07030F-R47M	0.47	±20%	4.1 (3.5)	20.0	18.0
TMPIC07030F-R68M	0.68	±20%	5.3 (4.8)	17.0	16.0
TMPIC07030F-1R0M	1.0	±20%	7.4 (6.7)	15.0	12.0
TMPIC07030F-1R5M	1.5	±20%	12.1 (10.6)	14.0	12.0
TMPIC07030F-2R2M	2.2	±20%	15.0 (13.5)	10.0	9.5
TMPIC07030F-3R3M	3.3	±20%	22.0 (18.0)	9.5	8.5
TMPIC07030F-4R7M	4.7	±20%	33.0 (28.0)	6.5	6.0
TMPIC07030F-6R8M	6.8	±20%	48.0 (42.5)	6.0	5.5
TMPIC07030F-100M	10	±20%	67.0 (62.0)	5.5	4.8
TMPIC07030F-220M	22	±20%	200 (180)	3.0	2.9

- Measurement frequency of Inductance value : at 100KHz, 1V
- Test equipment: CH1062A / CH1320

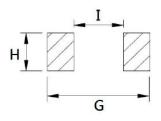
DIMENSION



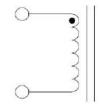




SOLDER PATTERN



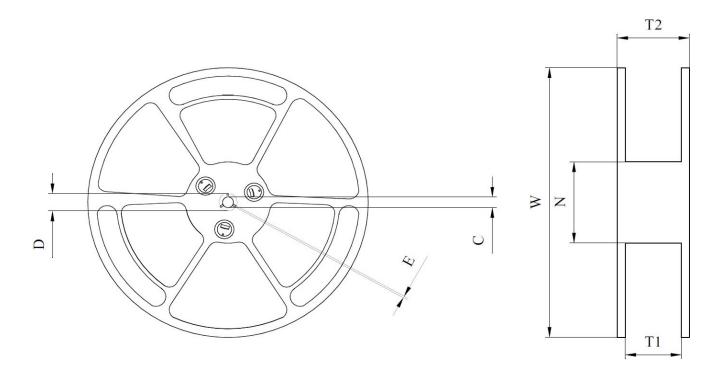




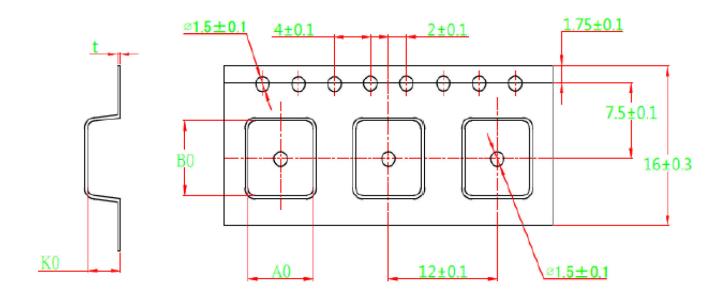
	Α	В	С	D	E	G	Н	I
mm	6.80 Max	7.30 Max	3.00 Max	3.00 ±0.3	1.6 Ref	8.00 Ref	3.45 Ref	3.70 Ref



REEL DIMENSIONS (1500 pcs per reel)



	W	D	С	T1	N	T2	E
mm	330 ±1.5	21.5 +0.5 / -0	13 +0.5 / -0.2	24.0+0.5 / -0	100 ±1.5	26.0 ±0.4	2.00 ±0.5



	Α0	В0	K0	t		
mm	7.2 ±0.10	7.5 ±0.10	3.6 ±0.15	0.35 ±0.05		



RELIABILITY TEST

1. Operating temperature range

-55 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 $100M\Omega$ 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 (0~2,000)x10⁻⁶/°C (-25~+80°C)

inductance deviation within ±5.0%, after 96 hours

7. Humidity characteristics (Moisture Resistance)

Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at 40 $\pm 2^{\circ}$ 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 ($10\sim55\sim10$ Hz) with 1.5mm P-P amplitudes.

9. Shock resistance

Inductance deviation within ±5%, after being dropped once with 981m/s² (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

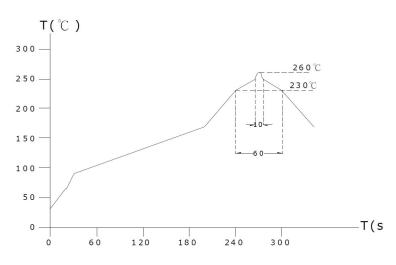
Temperature: 0°C~35°C; -55°C~125°C (after mounting on PCB)

Humidity Range: 50% ~ 70% RH

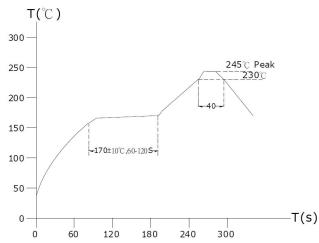
12. Use components within 12 months.

If 12 months or more have elapsed, check solderability before use.

LEAD-FREE HEAT ENDURANCE TEST



LEAD-FREE RECOMMENDED REFLOW



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