

TPOS3316F Series

Power Inductor SMD (13.0 X 9.5 X 5.21 mm)

FEATURES

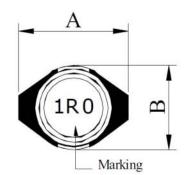
- Magnetic shielded
- Low DCR

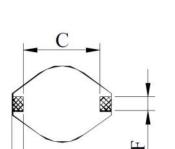
SPECIFICATION



Part No.	Inductance (µH)	Tolerance (%)	DC Resistance (Ω) Max.	Rated DC Current (A) Typ.
TPOS3316F-1R0M	1.0	±20%	0.021	5.00
TPOS3316F-1R5M	1.5	±20%	0.022	4.50
TPOS3316F-2R2M	2.2	±20%	0.032	3.80
TPOS3316F-3R3M	3.3	±20%	0.039	3.30
TPOS3316F-4R7M	4.7	±20%	0.054	2.70
TPOS3316F-6R8M	6.8	±20%	0.075	2.20
TPOS3316F-100M	10	±20%	0.101	2.00
TPOS3316F-150M	15	±20%	0.150	1.50
TPOS3316F-220M	22	±20%	0.207	1.30
TPOS3316F-330M	33	±20%	0.334	1.10
TPOS3316F-470M	47	±20%	0.472	0.80
TPOS3316F-680M	68	±20%	0.660	0.70
TPOS3316F-101M	100	±20%	1.110	0.60
TPOS3316F-151M	150	±20%	1.550	0.50
TPOS3316F-221M	220	±20%	2.000	0.37
TPOS3316F-102M	1000	±20%	8.300	0.17

Halogen Free RoHS compliant





E



SOLDER PATTERN

I

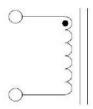
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DIMENSIONS



Measurement frequency of Inductance value : at 100KHz, 1V

Test equipment: CH1062A / CH1320A / CH16502



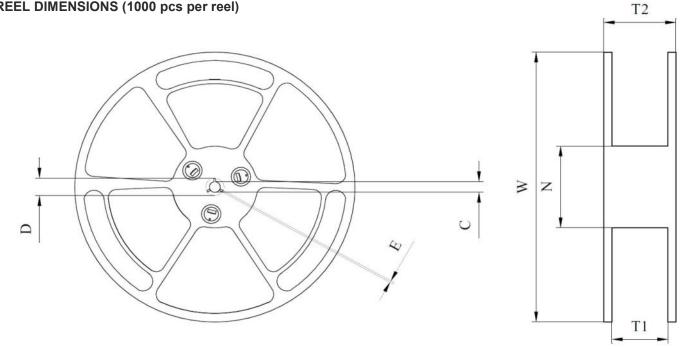
	Α	В	С	D	E	F	G	Н	I
mm	13.0 Max	9.50 Max	7.62	5.21 Max	2.54	2.54	13.00	3.00	7.62

Н

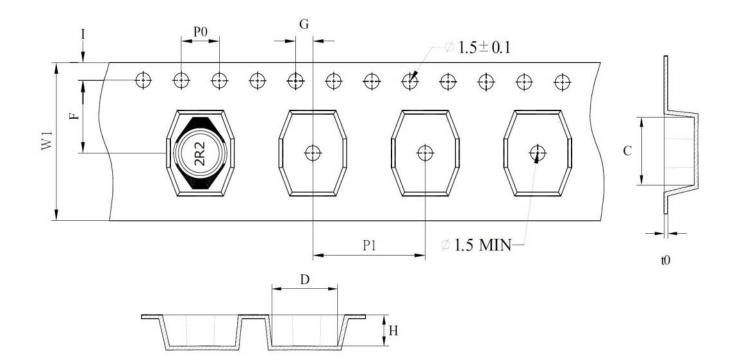


TPOS3316F Series

REEL DIMENSIONS (1000 pcs per reel)



	W	D	С	T1	Ν	T2	E
mm	330 ±1.5	21.5 +0.5 / -0	13 +0.5 / -0.2	24.5+0.5 / -0	100 ±1.5	29.5 ±0.4	2.00 ±0.5



W1	Ι	F	P0	G	P1	С	t0	D	Н
24.0 ±0.3	1.75 ±0.1	11.50 ±0.1	4.00 ±0.1	2.00 ±0.1	12.00 ±0.1	13.00 ±0.1	0.35 ±0.05	9.50 ±0.1	5.15 ±0.1

Rev 1: 05-29-2018



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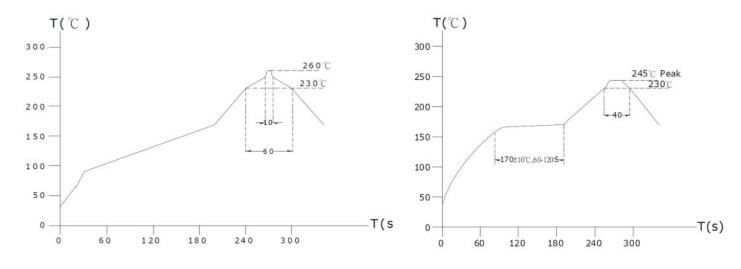
RELIABILITY TEST

1.Operating temperature range
-40 TO + 105°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 Ω 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 (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance
Inductance deviation within $\pm 5\%$, after being dropped once with 981m/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~105°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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