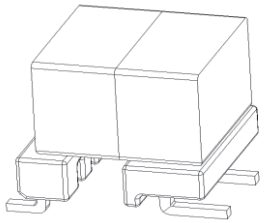
REACH & RoHS COMPLIANT

1 Features And Benefits

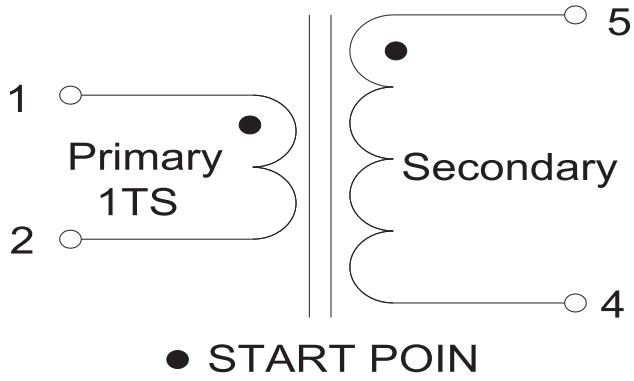
- Very low DC resistance.
- Different turns ratios.
- Small SMD package.
- Operating temperature range -40 ℃ to 125 ℃.
- Switch-mode power supplies.
- Feedback control.
- Overload sensing.
- Load drop/shut down detection.
- RoHS Compliant



2 Electrical Specifications @ 25°C

Part Number	Secondary Inductance (mH) Min 20KHz,0.1V	Current Rating (A) Max	Turns Ratio	DCR (mΩ) Max Primary 1-2	DCR (mΩ) Max Secondary 5-4	Hipot (V_{AC})
WHPT-EP070-020	1.7	20	1:50	1.9	2100	3000
WHPT-EP070-021	3.0	20	1:70	1.9	2900	3000
WHPT-EP070-022	7.0	20	1:100	1.9	5000	3000
WHPT-EP070-023	11.0	20	1:125	1.9	5300	3000
WHPT-EP070-024	25.0	20	1:180	1.9	7400	3000

3 Schematics



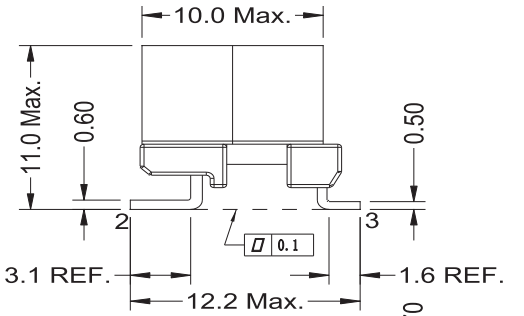
苏州沃虎电子科技有限公司
Su Zhou Voohu Electronic Tech.Co.Ltd

TEL: +86 400 1048 018
WEB: WWW.WOHU-TEK.COM

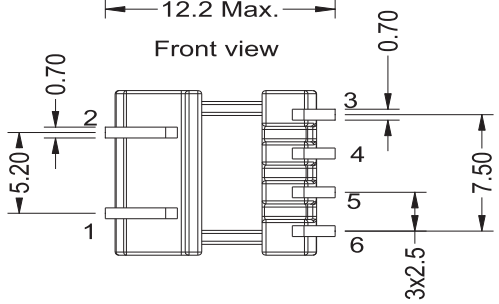
TITLE: SMT Current Sense Transformers	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
PART NO.: WHPT-EP070-022	SACLE 1:1	REV A0	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song
			.x±0.30	.x°±2.0°	
REMARK: 50K---500 kHz Available	SHEET 1/4		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu
			.xxx±0.10	.xxx°±1.0°	

REACH & RoHS COMPLIANT

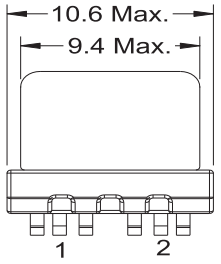
4 Dimensions (mm)& recommend layout



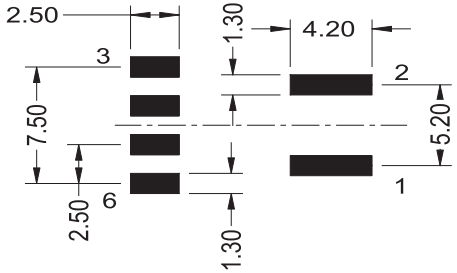
Front view



Bottom view

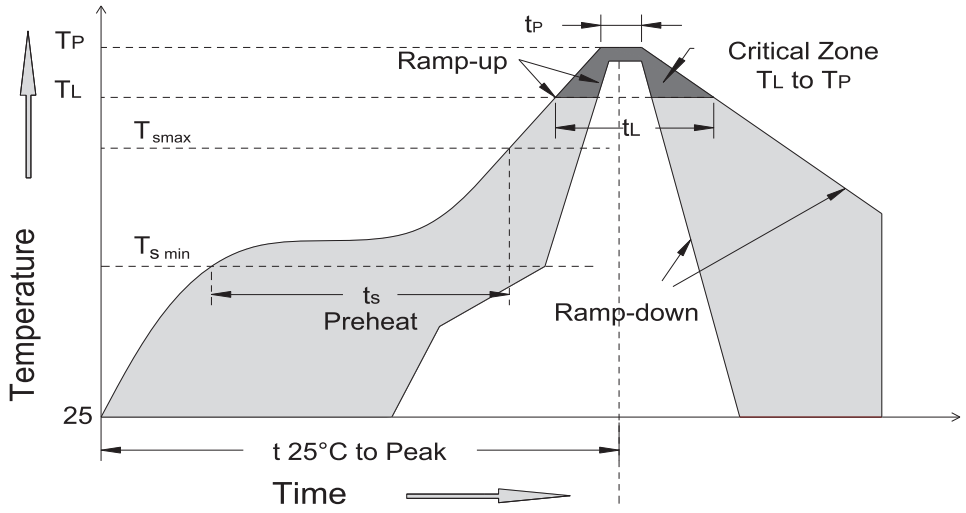


Side view



Suggested PAD Layout

5 Recommended Reflow Profile

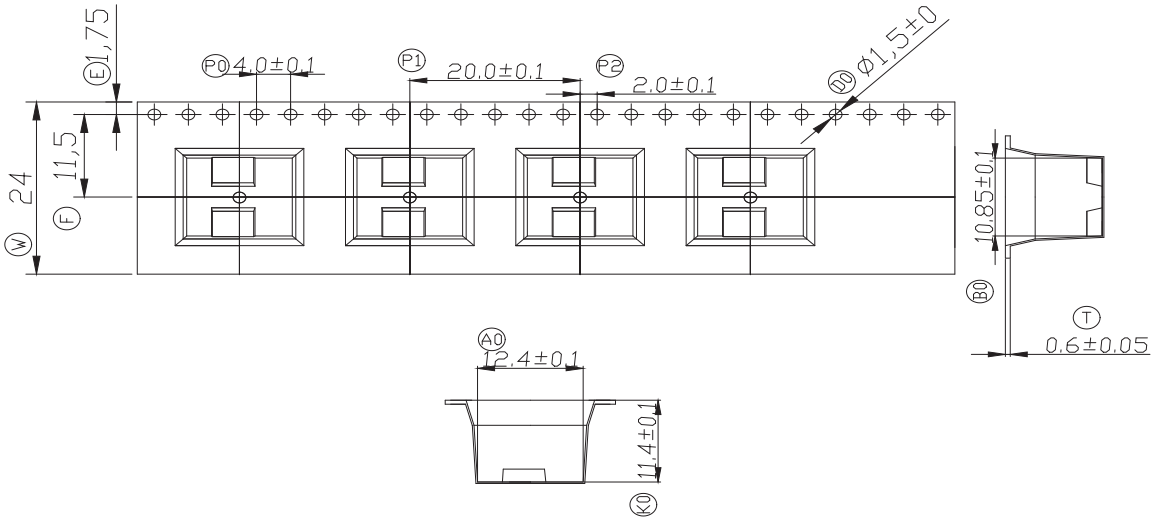


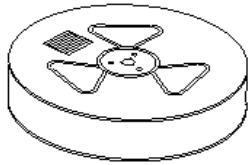
MSL:
Grade: 1 level. Floor life: 0.5 year Condition:</=30°C/60%RH.
Ramp up rate=3°C/s max Ramp down rate=6°C/s max
TL=217°C tL=60s-150s Tp=250+/-3°C Time within 5°C of actual Peak Temperature (tp): 20~40s
Ts min=150°C Ts max=200°C Ts min to Ts max: 60s-180s, 25°C to peak Temperature: 8minutes max

苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd	TITLE: SMT Current Sense Transformers	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
	PART NO.: WHPT-EP070-022	SACLE 1:1	REV A0	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song
				.x±0.30	.x°±2.0°	
TEL: +86 400 1048 018 WEB: WWW.WOHU-TEK.COM	REMARK: 50K---500 kHz Available	SHEET 2/4		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu
				.xxx±0.10	.xxx°±1.0°	

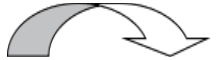
REACH & RoHS COMPLIANT

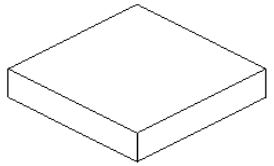
6 Packaging specification



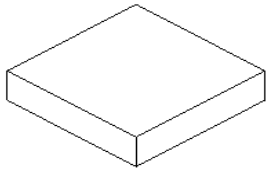


Three Reel



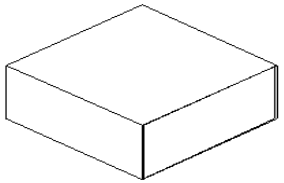


Inner Carton

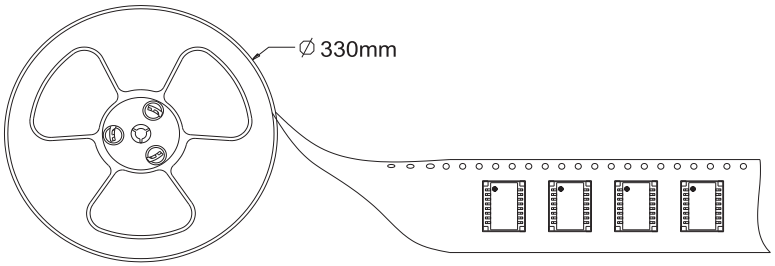


Two Inner Carton





Export Carton



Package Quantity:
One Reel=250 Pcs
One Inner Carton=250*3=750 Pcs
One Export Carton=750*2=1500 Pcs

VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd	TITLE: SMT Current Sense Transformers	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
	PART NO.: WHPT-EP070-022	SACLE 1:1	REV A0	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song
				.x±0.30	.x°±2.0°	
TEL: +86 400 1048 018 WEB: WWW.WOHU-TEK.COM	REMARK: 50K---500 kHz Available	SHEET 3/4		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu
				.xxx±0.10	.xxx°±1.0°	

REACH & RoHS COMPLIANT

7 Reliability test

NO.	Test Item	Standard Reference	Test Condition
1	Low temperature test	GB/T 2423.1	Temperature：-40±2℃ Time：168 hours Measurement at 24±4 hours after test conclusion."
2	High temperature storage test	GB/T 2423.2	Temperature：125±2℃ Time：168 hours Measurement at 24±4 hours after test conclusion.
3	Constant temperature and constant humidity test	GB/T 2423.3 (IEC 60068-2-78)	Temperature: 40±2℃ / humidity:93±2%RH Time: 168 hours Measurement at 24±4 hours after test conclusion.
4	High temperature and high humidity test	GB/T 2423.50	Temperature: 85±2℃ / humidity:85±2%RH Time: 168 hours Measurement at 24±4 hours after test conclusion.
5	Thermal shock test	GB/T 2423.22 (IEC 60068-2-14)	First -40±5℃ for 30±2 minutes，last 85℃ 30±2 minutes as 1 cycle. Total 10 cycles.
6	Salt spray test	GB/T2423.17 (IEC 60068-2-11	Concentration :(5±0.1) % PH : 6.5 ~ 7.2 Temperature: 35 ±2 ℃ Time: 24 hours
7	Solder ability test	GB/T 2423.28 (IEC 60068-2-20)	Preheating: 150±5℃, 60 seconds Immerse the terminal in flux for 5 seconds.then dip the terminal into a soldering bath of 245±5℃ for 3±1 seconds.
8	Drop test	GB/T 2423.8 (IEC 60068-2-32)	Floor should be hard,strong,concrete. Height:1m. Test 6 surfaces , 3 ridges and 1 corner of Test-box.
9	Vibration test	GB/T 4857.7	Frequency: 10-55-10Hz Sweep time: 1Min. Displacement:0.75mm, X,Y,Z axis 30Min respectively
10	Soldering resistance test	GB/T 2423.50	Preheating: 150±5℃, 60~120 seconds Immerse the terminal in flux for 5 seconds.then dip the terminal into a soldering bath of 260±5℃ for 10±1 seconds.

⚠ REMINDERS

- The best assembly quality guarantee period of product: 12 months (From shipment date)
  Storage condition : seal in packaging, (temperature: 5 to 40°C, humidity: 10 to 75% RH or less).
- If taking out for use, the remaining products should be sealed in plastic bags and preserved in accordance with the above conditions, to avoid oxidation of electrodes and affect soldering status.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.
  The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Always handle products with care to avoid damage.
- Do not touch electrodes with bare hands directly, as oil secretions may inhibit soldering.
  Always ensure optimum conditions for soldering.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- Do not use for Autimotive application.

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TITLE:	SIZE	UNITS	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY:
SMT Current Sense Transformers	A4	MM[INCH]			Geoffrey.Song
PART NO.:	SACLE	REV	x±0.35	x°±3.0°	CHECKED BY:
WHPT-EP070-022	1:1	A0	.x±0.30	.x°±2.0°	Elvis.Song
REMARK:	SHEET		.xx±0.25	.xx°±1.5°	DESIGND BY:
50K---500 kHz Available	4/4		.xxx±0.10	.xxx°±1.0°	Sunny.Xu