REACH & RoHS COMPLIANT

Specification for Approval

1 Features And Benefits

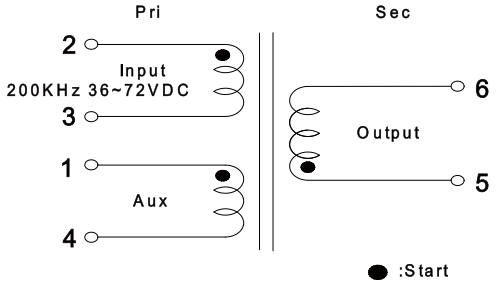
- Core material Ferrite
- Typical Topology : Flyback converters.
- Multilayer PCB for transformer Winding.
- Designed to meet IEEE802.3bt standard
- Perfect solution for high power PoE applications.
- High efficiency; excellent DCR; very low leakage inductance 1500 Vrms, one minute primary to secondary isolation.
- Turn ratios adopted to different output voltages
- 21.0×22.8×8.0mm maximum surface mount package.
- RoHS compatible
- Operating temperature–40°C to +125°C(Including self - temperature rise) .

2 Electrical Specifications @ 25°C

VOOHU P/N	VOOHU Model	Power (W)	Inductance (uH±10%)	Leakage Inductance (uH Max)	DCR(mΩ Max)			Turns ratio			Isat	Output
					Pri	Sec	Aux	Pri	Sec	Aux	(A)	
WHPT-EQ200-011	SPER20S1	60	21.0	0.5	90	11	350	1	0.166	0.666	5.4	3.3V/18A
WHPT-EQ200-012	SPER20S2	60	21.0	0.5	40	8	220	1	0.25	0.5	5.4	5.0V/12A
WHPT-EQ200-013	SPER20S3	60	21.0	0.5	40	14	220	1	0.5	0.5	6	12V/5.0A
WHPT-EQ200-014	SPER20S4	60	21.0	0.5	40	33	220	1	1	0.5	6	24V/2.4A

Notes：

1.Measuring conditions 100 kHz, 1V.
2.Leakage inductance is for the primary and is measured with the secondary winding shorted.
3.DC current at 25°C that causes an inductance drop of <15% from its value without current.
4.HI-POT:Pri—Sec:1500VAC/2mA/5S ,Pri,Sec-Core:500VAC/2mA/5S.
5.Output is for the secondary. Output of the aux winding is 12 V, 30 mA.

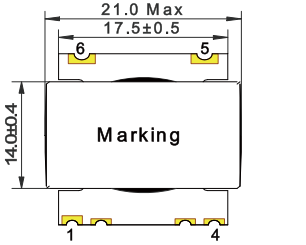


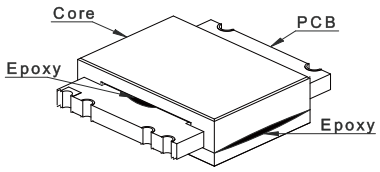
苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd	TITLE:60W Planar Transformers Surface Mount Package	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED	APPROVED BY: Geoffrey.Song
	PART NO.: WHPT-EQ200-60W Series WH-N-23021	SACLE 1:1	REV A1	x±0.35 / x°±3.0° / .x±0.30 / .x°±2.0°	CHECKED BY: Elvis.Song
TEL: +86 400 1048 018 WEB: WWW.VOOHU.CN	REMARK: Size:21.0x22.8x8.0mm maximum	SHEET 1/4		.xx±0.25 / .xx°±1.5° / .xxx±0.10 / .xxx°±1.0°	DESIGND BY: Sunny.Xu

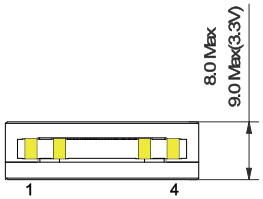
REACH & RoHS COMPLIANT

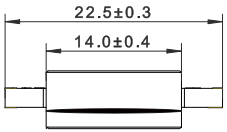
Specification for Approval

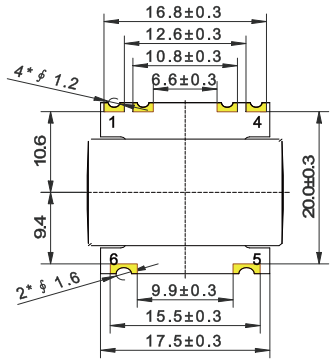
4 Dimensions (mm)& recommend layout

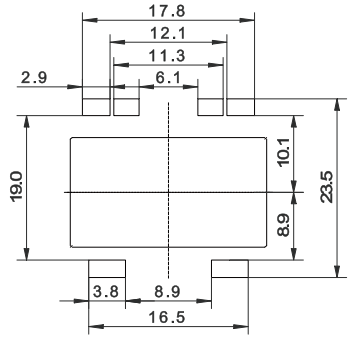








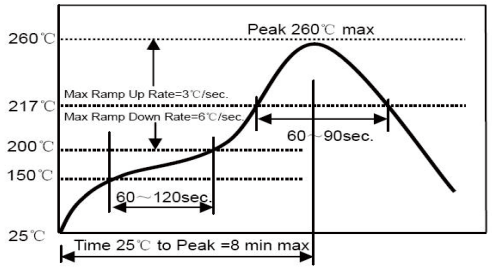




Suggested PAD layout

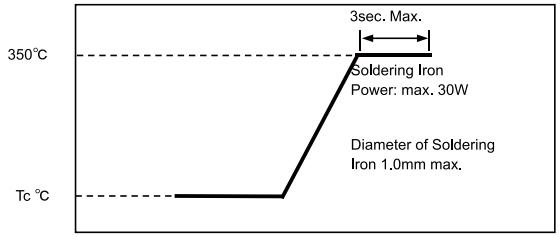
5 Recommended Solder Profile

a. Reflow Profile



Preheat condition: 150 ~200℃/60~120sec.
Allowed time above 217℃: 60~90sec.
Max temp: 260℃
Max time at max temp: 10 sec.
Solder paste: Sn/3.0Ag/0.5Cu
Allowed Reflow time: 2x max

b. Iron Soldering Profile



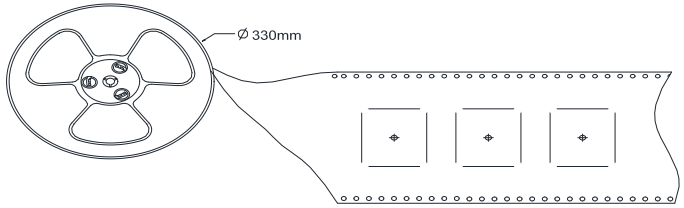
Iron soldering power: Max. 30W
Pre-heating: 150℃/60sec.
Soldering Tip temperature: 350℃ Max.
Soldering time: 3sec. Max.
Solder paste: Sn/3.0Ag/0.5Cu
Max.1 times for iron soldering

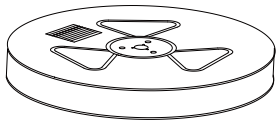
VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd	TITLE:60W Planar Transformers Surface Mount Package	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
	PART NO.: WHPT-EQ200-60W Series WH-N-23021	SACLE 1:1	REV A1	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song
				.x±0.30	.x°±2.0°	
TEL: +86 400 1048 018	REMARK: Size:21.0x22.8x8.0mm maximum	SHEET 2/4		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu
WEB: WWW.VOOHU.CN				.xxx±0.10	.xxx°±1.0°	

REACH & RoHS COMPLIANT

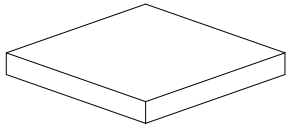
Specification for Approval

7 Package

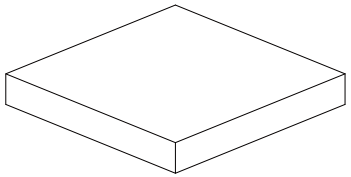




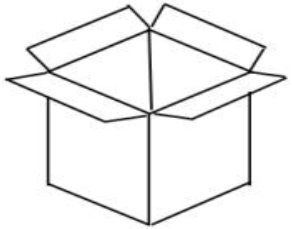
Two Reel



Inner Carton



Two Inner Carton



Export Carton

Package Quantity:
One Reel=200Pcs
One Inner Carton=200*2=400Pcs
One Export Carton=400*2=800Pcs

VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd	TITLE: 60W Planar Transformers Surface Mount Package	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
	PART NO.: WHPT-EQ200-60W Series WH-N-23021	SACLE 1:1	REV A1	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song
				.x±0.30	.x°±2.0°	
TEL: +86 400 1048 018 WEB: WWW.VOOHU.CN	REMARK: Size:21.0x22.8x8.0mm maximum	SHEET 3/4		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu
				.xxx±0.10	.xxx°±1.0°	

REACH & RoHS COMPLIANT

Specification for Approval

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.

VOOHU 苏州沃虎电子科技有限公司 Su Zhou Voohu Electronic Tech.Co.Ltd	TITLE: 60W Planar Transformers Surface Mount Package	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: Geoffrey.Song
	PART NO.: WHPT-EQ200-60W Series WH-N-23021	SACLE 1:1	REV A1	x±0.35	x°±3.0°	CHECKED BY: Elvis.Song
				.x±0.30	.x°±2.0°	
TEL: +86 400 1048 018 WEB: WWW.VOOHU.CN	REMARK: Size:21.0x22.8x8.0mm maximum	SHEET 4/4		.xx±0.25	.xx°±1.5°	DESIGND BY: Sunny.Xu
				.xxx±0.10	.xxx°±1.0°	