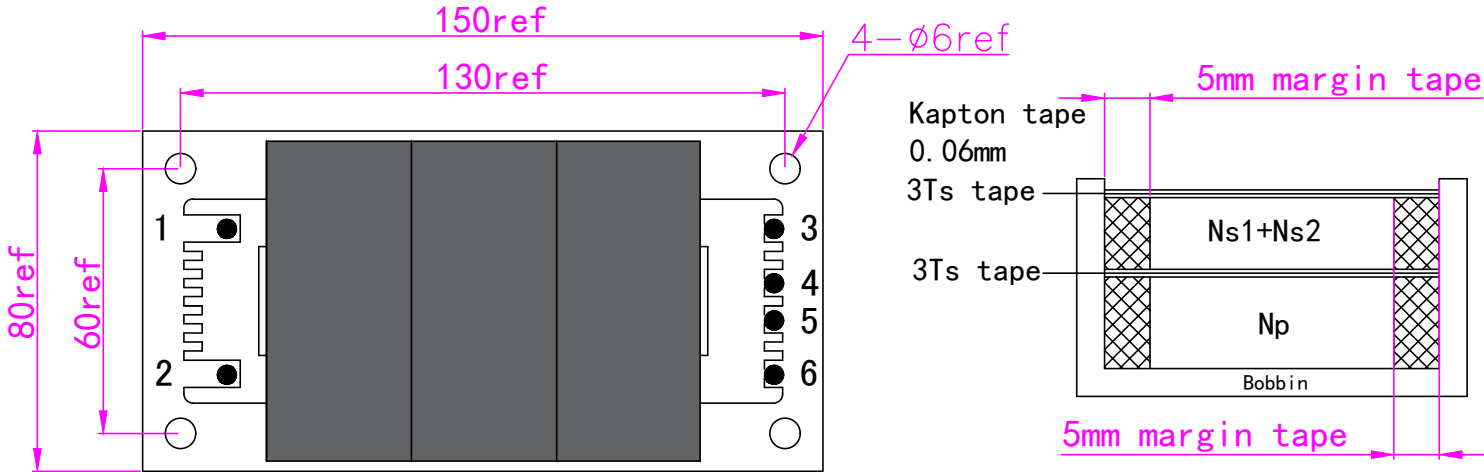
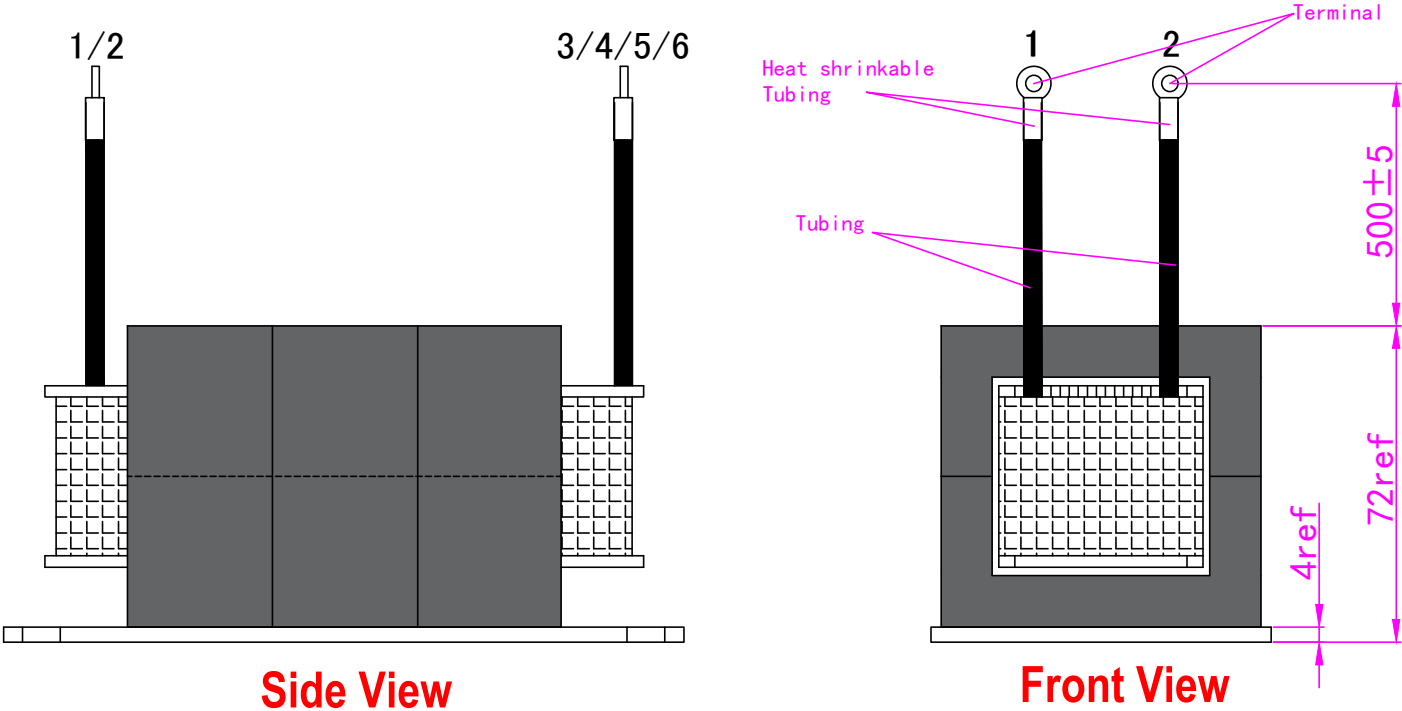


8kW Transformer / TS11084R



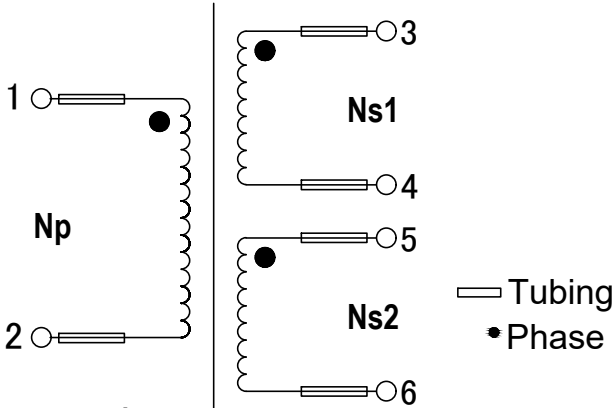
REV	DESCRIPTION	DATE	APPROVED
A	First Release	2024-03-21	Mark

Outline Dimensions(Unit:mm)



Top View

Electronical Schematic:



Construction:

Constructed with UL rated 130°C (Class B) materials.

Windings	Clearance (min.)	Creepage (min.)
Np-Ns	5. 0mm	8. 0mm
Np-Core	5. 0mm	8. 0mm
Ns-Core	3. 0mm	3. 0mm

Electrical Characteristics:

No.	Item	Terminal	Technical Data	Test Condition & Instrument
1	Power	8kW		
2	Frequency	33kHz		
3	Inductance	1 - 2	1.5mH min	TH2829C, 33kHz 0.1V 0Adc @ 25°C
4	D.C. Resistance	1 - 2	20 mΩ max	TH2516B @ 25°C
		3 - 4/5 - 6	20 mΩ max	
5	Turns Ratio	Np:Ns1:Ns2	8:5:5 ± 2%	TH2829A, 20kHz 0.3V @ 25°C
6	Hi-Pot	Np - Ns1+Ns2	3mA Max	TH9320, 3.75KVAC 50Hz 60S @ 25°C
		Coil - Core	3mA Max	TH9320, 3.75KVAC 50Hz 60S @ 25°C

Winding step:

WDG	Terminal	Wire Gauge	Turns	Kapton Tape	Current
Np	1 - 2	Ø0.20mm*220P Litz	8 Ref	3Ts	50 Arms
Ns1	3 - 4	Ø0.20mm*180P Litz	5 Ref	3Ts	40 Arms
Ns2	5 - 6	Ø0.20mm*180P Litz			

List of UL Certificate:

No.	Part name	Description	Supplier(or equivalent)	UL Number
1	Ferrite Core	EE7066A PL7 x 3set EE70/33/32 x 3set	Samwha TDG	N/A
2	Bobbin	T375J	CHANG CHUN PLASTICS CO LTD	E59481
3	Copper Wire	Litz	HUIZHOU HUILI INDUSTRIAL CO LTD	E317107
4	Tape	PF*	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	E165111
5	Tube	CB-SGS	CHANGYUAN ELECTRONICS GROUP CO LTD	E180908
6	Epoxy	E-500	DONGGUAN EATTO ELECTRONIC MATERIAL CO LTD	E218090
7	Varnish	T-4260(a)	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD	E228349

	High Frequency Transformer	
	POWEL P/N	TS11084R
	Customer P/N	8KW Transformer