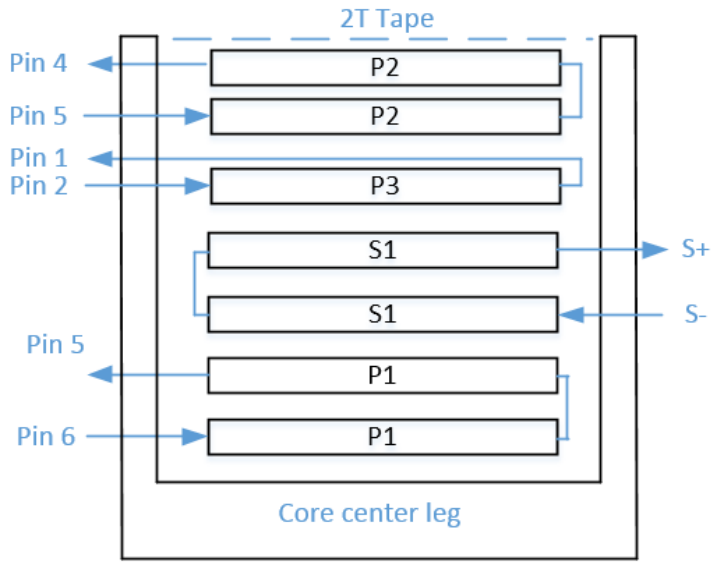
JH 06.04.2017

950V_V4

Specifications

Core size	RM10
Core material	3C95 or approved equivalent
Bobbin	8 pin RM10 vertical
Primary inductance	650 µH measured from pin 6 to pin 4 @10kHz
Leakage inductance	< 15 µH measured from pin 6 to pin 4 @10kHz pins S-,S+,1, and 2 shorted

Stackup:



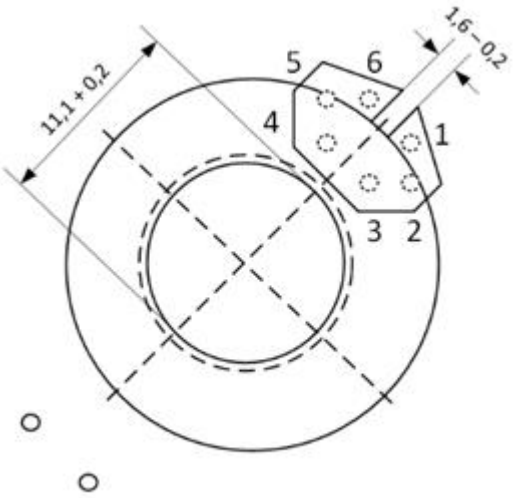
Assembly Notes:

1. S- in red tube, S+ in black tube
2. S- length ***30mm***, solder length 5mm
3. S+ length ***30mm***, solder length 5mm
4. Cut pin 3, pin 5, core clip PCB mount pins, and secondary pins.
5. Add a flux band of 8mm copper foil with 2 layers of tape and 3mm of cuffing on each side. Add around the core with the tape side facing out. Using ϕ0.35mm solder to pin 2.
6. Vacuum varnish the entire assembly.
7. Cut the core clamp pins off of the transformer.

Windings:

Name	Start	Stop	Turns	Wire gauge	Layer	Winding
P1	6	5	27	1 x ϕ0.35mm	Primary	Evenly spaced
S1	S-	S+	8	2x ϕ 0.50mm triple insulated	Secondary	Evenly spaced
P3	2	1	6	1 x ϕ0.15mm, with margin tape	Auxiliary	Evenly spaced
P2	5	4	27	1 x ϕ0.35mm	Primary	Evenly spaced
T1			2	tape		

Mechanical/Pinout(**Viewed from the Top**):



Test:

100% of components need to be Hi-Pot tested to 4.2kV primary to secondary for 1 minute.