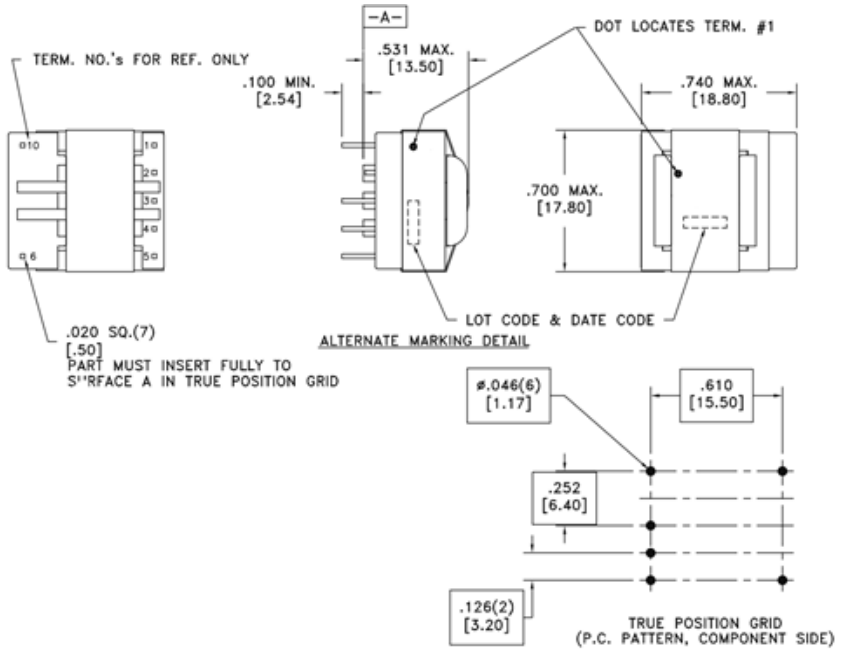
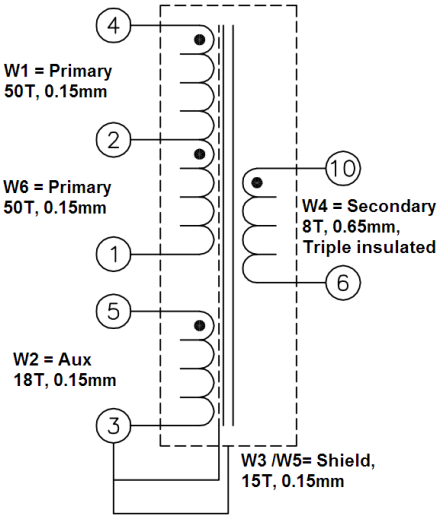
Transformer specification

1. Materials List

- CORE: EE16, PC40 or equivalent material
- Bobbin: EE16/7/5(Horizontal)
- 0.65mm Furukawa TEX-E triple insulated wire or equivalent.
- 0.15mm ECW
- 1 Oz (66 µm thick) adhesive copper foil.
- Mylar tape.



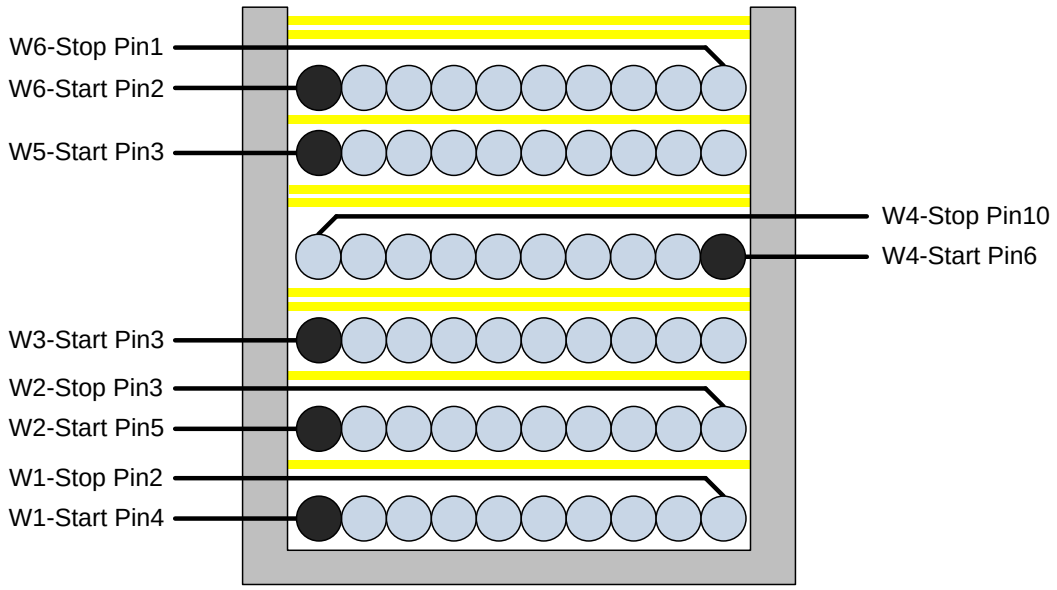
2. Electrical Diagram



3. Electrical Specification

Parameter	Test Condition	Value
Dielectric	1 second, from pins 4 to 10(tie 4+5), pin 10 to core	3000V
Primary Inductance	Open all other windings, measured on pin 4-1 at 10 kHz, 1V	550uH, ±10%
Leakage Inductance	Tie 3&5, 6&10 together, measured on pin 4-1at 10 kHz, 1V	50uH, ±10%
Turn Ratio	(4-1):(5-3)	5.550:1, ±2%
Turn Ratio	(4-1):(10-6)	12.50:1, ±2%

4. Building Construction



5. Winding Table

Winding	Start pin	End pin	Turns	Strand	Layer	Wire size
W1	4	2	50	1	1	0.15mm
W2	5	3	18	1	1	0.15mm
W3	3	-	15	1	1	0.15mm
W4	6	10	8	1	1	0.65mm
W5	3	-	15	1	1	0.15mm
W6	2	1	50	1	1	0.15mm

6. Winding Instructions:

1) W1, start at pin 4, 1 layer across bobbin, return at 90º to pin 2. One layer of tape over winding.
2) W2, start at pin 5, 1 layer across bobbin, return at 90º to pin 3. One layer of tape over winding.
3) W3, start at pin 3, 1 layer across bobbin, leave ends floating. Two layer of tape over winding.
4) W4, start at pin 10, 1ayer across bobbin, return at 90º to pin 6. Two layer of tape over winding.
5) W5, start at pin 3, 1 layer across bobbin, leave ends floating. One layer of tape over winding.
6) W6, start at pin 2, 1 layer across bobbin, return at 90º to pin 1. Two layer of tape over winding.
7) One layer of copper tape around assembled core, connects to pin 3.Cover copper tape with Mylar tape, Varnish after complete assembly.