# HIGH FREQUENCY FLAT COIL PLANAR TRANSFORMER

Industrial Grade





Power Rating: up to 300W
Height: 10.4mm to 11.9mm
Max Footprint: 29.5mm x 26.7mm

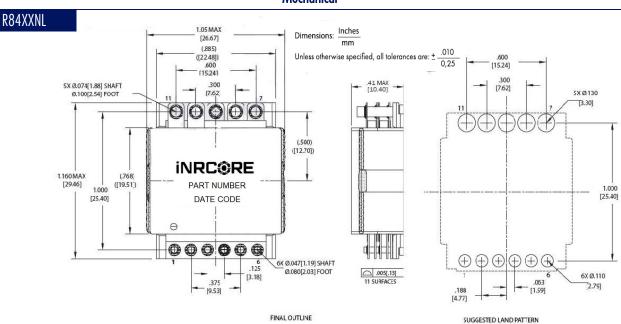
Max Frequency Range: 200kHz to 700kHz
 Isolation (Primary to Secondary): 1750V<sub>DC</sub>

Moisture Sensitivity Level:1

Electrical Specifications @ 25 °C – Operating Temperature — 40°C to +125 °C										
Part	Turns Ratio		Schematic	Primary* Inductance	Leakage** Inductance	DCR (m \Omega ) MAX)				Height MAX)
Number	Primary	Secondary	Schemanc	(µH MIN)	(µH MAX)	Primary A	Primary B	Primary Aux.	Secondary	(mm)
R8401NL	4T & 4T			211	0.3	6.8	6.8	-		10.4
R8402 NL	5T & 5T	4T		330	0.45	8.5	8.5	-		10.4
R8403 NL	6T & 6T	(1T:1T:1T:1T)	Al	423	0.6	10.2	10.2	-	4.5	11.9
R8404 NL	7T & 7T			588	0.83	11.8	11.8	-		
R8405NL	8T & 8T			768	1.2	13.4	13.4	-		
R8406 NL	4T& 4T	17 & 17	A2	211	0.45	6.8	6.8	-	0.56 & 0.56	10.4
R8407NL	5T & 5T			330	0.84	8.5	8.5	-		
R8408NL	6T & 6T			432	1.0	10.2	10.2	-		
R8409NL	7T & 7T			588	1.2	11.8	11.8	-		11.9
R8410NL	8T & 8T			768	1.7	13.4	13.4	-		

Notes: 1. Optional Tape & Reel packaging can be ordered by adding a "T" suffix at the end of the part number (i.e. R8408NLT)

### Mechanical





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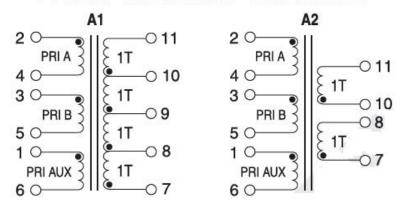
Industrial Grade



#### **Electrical Schematic**

#### R84XXNL

#### — DOUBLE INTERLEAVE SCHEMATICS —



#### Notes from Tables

- Inductance is measured with primary windings connected in series (2 to 5, with 3 and 4 shorted.)
- 2. Leakage inductance is measured on winding (2-5) with (3-4) and (7,8,9,10,11) shorted.
- 3. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the complete number (R8401NLT or R8401NLT).
- 4. To determine if the transformer is suitable for your application, it is necessary to ensure that the temperature rise of the component (ambient plus temperature rise) not exceed it's operating tem-perature. To determine the approximate temperature rise of the transformer refer to the graphs below.

