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

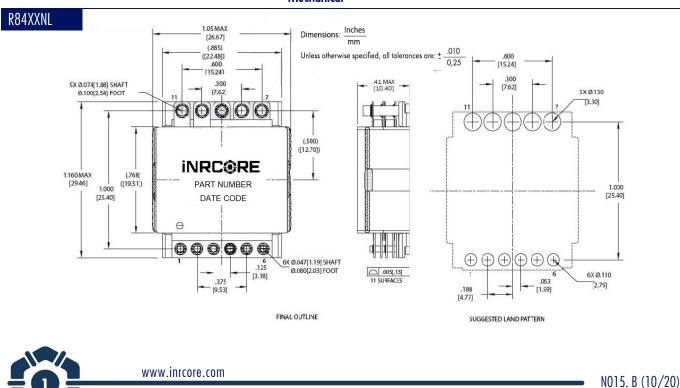
Max Frequency Range: 200kHz to 700kHz

Solution (Primary to Secondary): 1750V_{DC}

Moisture Sensitivity Level: 1

Electrical Specifications @ 25 °C – Operating Temperature – 40°C to +125 °C										
Part	Turns Ratio		Schematic	Primary* Inductance	$\label{eq:leakage} \texttt{Leakage}^{\star\star} \texttt{Inductance} \qquad \qquad \texttt{DCR} (\texttt{m} \ \Omega \) \texttt{MAX})$					Height MAX)
Number	Primary	Secondary	Jenoniune	(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)	A1	423	0.6	10.2	10.2	-	4.5	
R8404 NL	7T & 7T			588	0.83	11.8	11.8	-	_	11.9
R8405NL	8T & 8T			768	1.2	13.4	13.4	-		
R8406 NL	4T& 4T	11 & 11	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	-		11.9
R8409NL	7T & 7T			588	1.2	11.8	11.8	-		
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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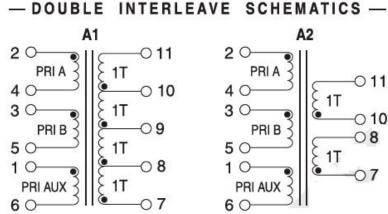
Industrial Grade

R84XXNL



Electrical Schematic

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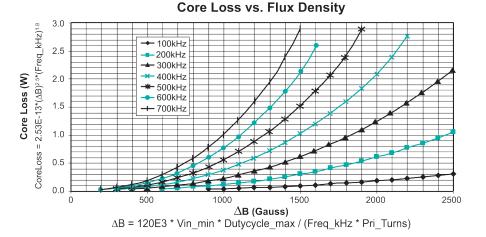
PRI A 011 40 1T 30 010 PRI B 08 50 1T 1 C $\mathbf{07}$ PRI AL 6 C

A2

Notes from Tables

- 1. 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 neccesary 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.





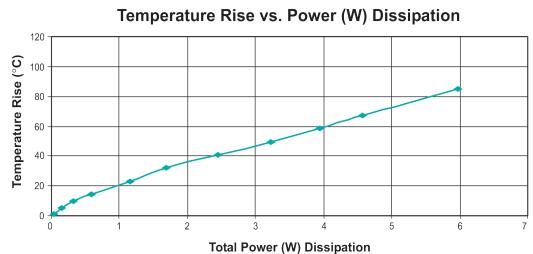
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Total Power Dissipation (W) = .001 * (DCRprimary * IRMs_primary² + DCRsecondary * IRMs_secondary²) + Core Loss (W)

For More Information

iNRCORE,LLC 311 Sinclair Road Bristol, PA 19007-6812 U.S.A Tel: + 1.215.781.6400 Fax: +1.215.7816430 Dongguan iNRCORE Co. Ltd No.7, An Li Road, Changan Town, Dongguan City, China Tel: +0769 8165 9962

Global Sales Representatives and Locations: https://www.inrcore.com

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