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

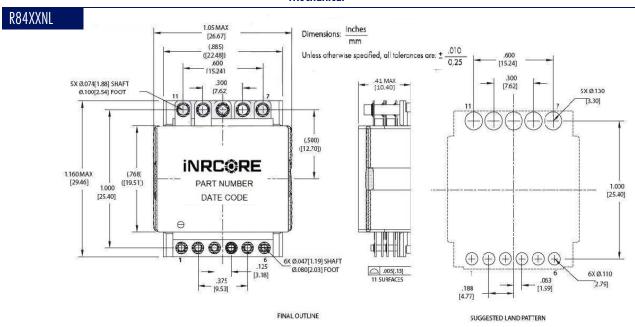
Max Frequency Range: 200kHz to 700kHz
 Isolation (Primary to Secondary): 1750V_{DC}

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 Ω) MAX)				Height MAX)
Number	Primary	Secondary	SCHEIHUIL	(NIM Hu)	(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	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	-		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





www.inrcore.com

HIGH FREQUENCY FLAT COIL PLANAR TRANSFORMER

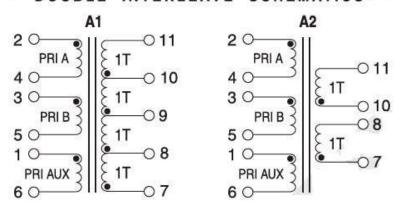
Industrial Grade



Electrical Schematic

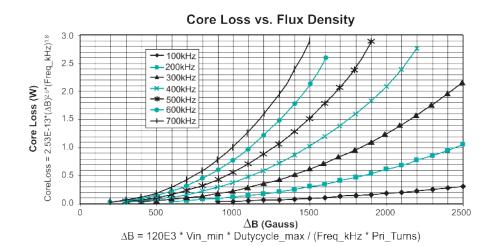
R84XXNL

- DOUBLE INTERLEAVE SCHEMATICS -



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 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.



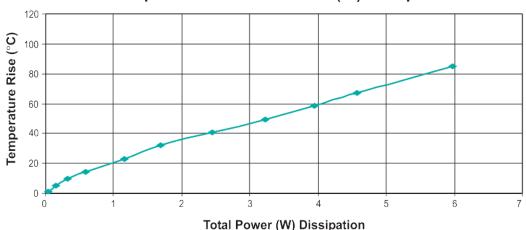


HIGH FREQUENCY FLAT COIL PLANAR TRANSFORMER

Industrial Grade







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

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2020. iNRCORE, LLC. All rights reserved.



www.inrcore.com

N015. B (10/20)