HIGH FREQUENCY FLAT COIL PLANAR TRANSFORMERS

PH08XXNL Series (up to 160W)







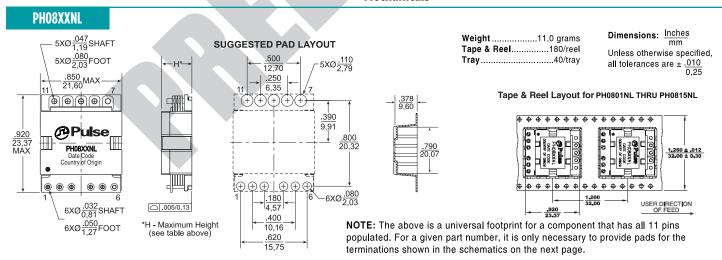
Power Rating: up to 160 WHeight: 8.6mm to 9.1mm Max

Frequency Range: 200kHz to 700kHz

Isolation (Primary to Secondary): 1000 VDC

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C										
	Turns				Primary ¹	Leakage ²	DCR (mΩ MAX)			Maximum
Part ³	Duimann A	Duimour D	Casandani	Schematic	Inductance	Inductance	Duine and A	Drivers	Carandama	Height
Number	Primary A	Primary B	Secondary		(µ MIN)	(µ MAX)	Primary A	Primary B	Secondary	(mm)
PH0801NL	4T	4T	4T (1T:1T:1T:1T)	A1	153	0.45	8.5	8.5	7	8.6
PH0802NL	4T	5T			194	0.45	8.5	12.5	7	8.6
PH0803NL	5T	5T			240	0.55	12.5	12.5	7	8.6
PH0804NL	5T	6T			290	0.60	12.5	14.2	7	9.1
PH0805NL	6T	6T			345	0.65	14.2	14.2	7	9.1
PH0806NL	4T	4T	17 & 17	A2	153	0.45	8.5	8.5	.875 & .875	8.6
PH0807NL	4T	5T			194	0.55	8.5	12.5	.875 & .875	8.6
PH0808NL	5T	5T			240	0.55	12.5	12.5	.875 & .875	8.6
PH0809NL	5T	6T			290	0.90	12.5	14.2	.875 & .875	9.1
PH0810NL	6T	6T			345	1.00	14.2	14.2	.875 & .875	9.1
PH0811NL	4T	4T	2T & 1T	A3	153	0.45	8.5	8.5	1.75 & 1.75	8.6
PH0812NL	4T	5T			194	0.45	8.5	12.5	1.75 & 1.75	8.6
PH0813NL	5T	5T			240	0.55	12.5	12.5	1.75 & 1.75	9.1
PH0814NL	5T	6T			290	0.65	12.5	14.2	1.75 & 1.75	9.1
PH0815NL	6T	6T			345	0.85	14.2	14.2	1.75 & 1.75	9.1

Mechanicals



USA 858 674 8100

Germany 49 7032 7806 0

Singapore 65 6287 8998

Shanghai 86 21 62787060

China 86 755 33966678

Taiwan 886 3 4356768

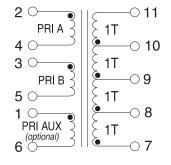
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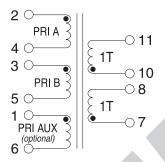
Schematics



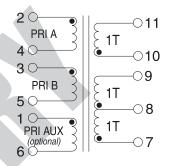
A1 PH0801 / 02 / 03 / 04 / 05



A2 PH0806 / 07 / 08 / 09 / 10



A3 PH0811 / 12 / 13 / 14 / 15

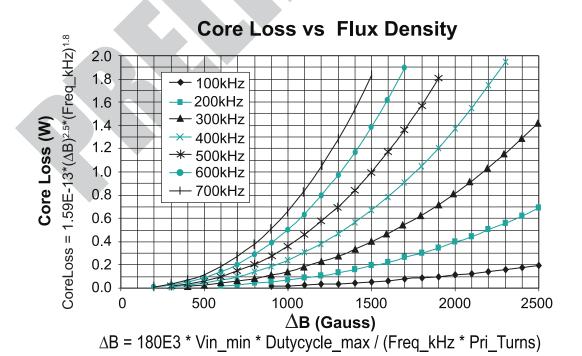


Notes:

- 1. Inductance is measured with both 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. The "NL" suffix indicates an RoHS-compliant part number.
- 4. It is possible to add a primary side aux. winding to any of the above configurations as shown in the schematics. Transformers with primary side aux. winding are non-standard and can be made available upon request. The primary aux. winding can be between 2 and 16 turns. To add a primary aux. winding to a given base, use the

extension .xxx. For example, to add a 4T aux. winding to the base part number PH0801NL, use the part number PH0801.004NL. The height increases by 0.5mm for .xxx part. For example, **PH0801NL** is 8.6mm MAX, **PH0801.004NL** is 9.1mm MAX. 5. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the complete number (i.e. **PH0801.009NL** becomes **PH00801.009NLT**).

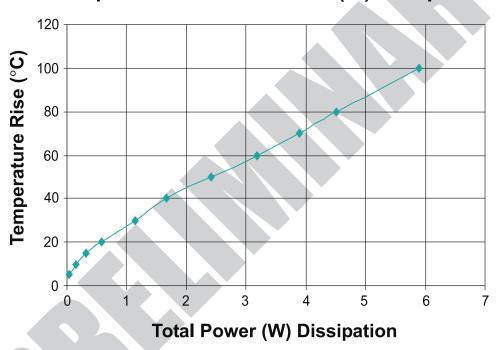
6. To determine if the transformer is suitable for your application, it is necessary to ensure that the temperature rise of the component (ambient plus temperature rise) not exceed its operating temperature. To determine the approximate temperature rise of the transformer, refer to the graphs below.



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Temperature Rise vs. Power (W) Dissipation



For More Information

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