High Frequency Planar Transformers



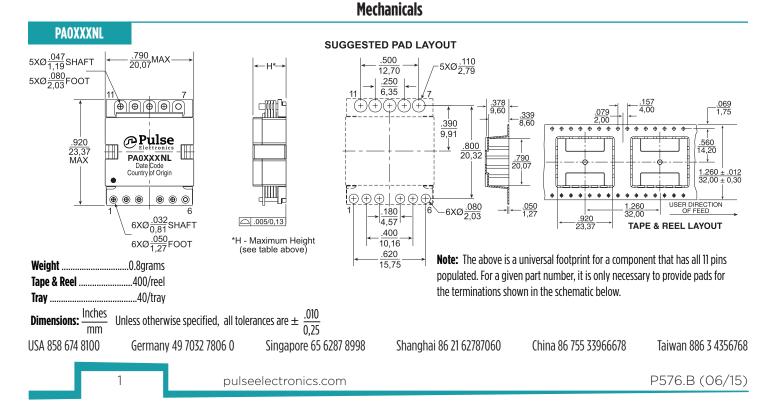
Spyglass Series (up to 140W)





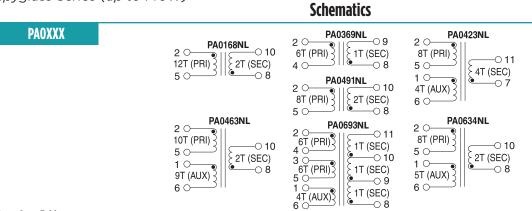
- Power Rating: up to 140W
- Height: 8.6mm MAX and 9.7mm MAX
- Footprint: 23.4mm x 20.1mm MAX
- Frequency Range: 235kHz to 700kHz

Electrical Specifications @ 25°C – Operating Temperature –40°C to +125°C									
			Primary ²	Primary	Leakage	DCR (m Ω MAX)		Maximum	
Part ^{4, 5} Number	Power' Rating	Turns Ratio (Pri:Sec)	Secondary Isolation	Inductance (µH MIN)	Inductance* (µH MAX)	Primary	Primary Aux.	Secondary	Height (mm)
PA0168NL	100W 48v to 3.3v/30A	12:2	1500 Vdc Basic	320	0.75	45	N/A	1.30	8.6
PA0369NL	100W 48v to 3.3v/30A	6:1	1500 Vdc Basic	65	0.25	15	N/A	0.40	8.6
PA0423NL	140W 48v to 12v/11.7A	8:4 (w/4T Pri. Aux.)	1500 Vdc Basic	140	0.30	35	500	7.00	8.6
PA0463NL	50W 48v to 3.3v/15A	10:2 (w/9T Pri. Aux.)	1500 Vdc Basic	200	1.00	40	4885	2.50	8.6
PA0491NL	100W 48v to 5v/20A	8:2	1500 Vdc Basic	140	0.25	35	N/A	1.30	8.6
PA0634NL	100W 48v to 5v/20A	8:2 (w/5T Pri. Aux.)	1500 Vdc Basic	140	0.38	35	460	1.30	8.6
PA0693NL	100W 48v to 5v/25A	12:3 (w/4T Pri. Aux.)	1500 Vdc Basic	346	0.55	50	300	3.50	9.7



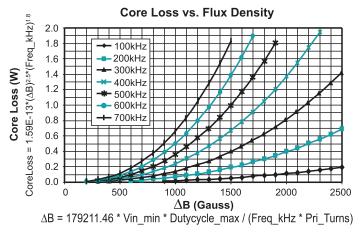
High Frequency Planar Transformers

Spyglass Series (up to 140W)



Notes from Tables:

- 1. The above transformers have been tested and approved by Pulse's IC partners and are cited 3. To determine if the transformer is suitable for your application, it is necessary to ensure in the appropriate datasheet or evaluation board documentation at these companies. To determine which IC and IC companies are matched with the above transformers, please refer to the IC cross reference on the Pulse web page. See the Spyglass transformer matrix on the next page for other winding configurations that can be made available.
- 2. The listed transformers are designed to meet basic insulation (1.4mm creepage and clearance with 1500Vdc isolation). Lower cost transformers with operational insulation (1500Vdc isolation with no creepage and clearance spacings) are available. Please contact Pulse Power Applications Engineering for details.



For More Information

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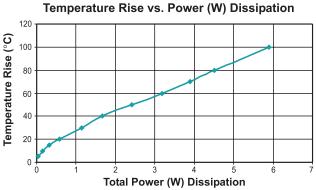
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West

China

- that the temperature rise of the component (ambient plus temperature rise) does not exceed its operating temperature. To determine the approximate temperature rise of the transformer, refer to the graphs below.
- 4. Add suffix "T" to the part number for Tape & Reel package (i.e. PA0168T).



Total Power Dissipation (W) = .001 *(DCRprimary

* Irms_primary² + DCRsecondary * Irms_secondary²) +Core Loss (W)

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 H5015FNLT
 H6080NLT
 CX2024NL
 HX1294FNLT

 TX1473NLT
 PE-69011NLT
 CX2047LNLT
 CX2043LNLT
 DCT20EFD-U32S003
 H5120NLT
 H7137FNLT
 H1259NLT