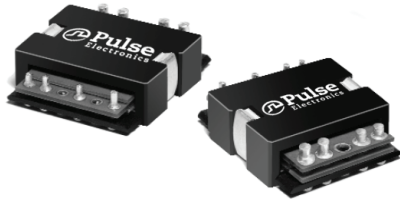


High Frequency Planar Transformers

Prism Series (up to 250W)



- Power Rating:** up to 250W
- Height:** 9.3mm to 10.4mm Max
- Footprint:** 29.5mm x 25.4mm Max
- Frequency Range:** 200kHz to 700kHz

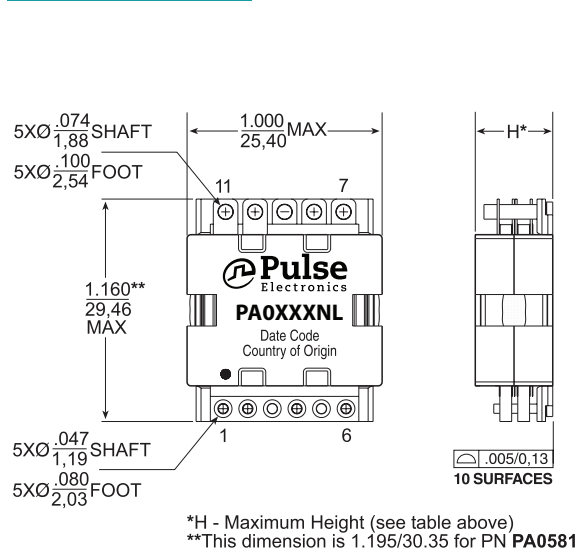
Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Part Number	Turns Ratio		Primary ² Secondary Isolation	Primary Inductance (μH MAX)	Leakage** Inductance (μH MAX)	DCR (mΩ MAX)			Maximum Height (V _{DC})
	Primary	Secondary				Primary A	Primary Aux.	Secondary	
Double Interleave Designs (Higher Efficiency, Lower DCR and Lower Leakage)									
PA0526NL	5T (with 5T Aux.)	1T & 1T	1500VdC Basic	85	—	7.5	235	.56 & .56	10.2
PA0550NL	5T (with 5T Aux.)	2T & 2T	1500VdC Basic	85	—	7.5	235	2.25 & 2.25	10.2
Single Interleave Designs (Lower Cost)									
PA0442NL	5T (with 5T Aux.)	2T & 2T	1500VdC Basic	85	1.5	14.5	465	1.7 & 1.7	9.3
PA0580NL	6T (with 5T Aux.)	7T & 7T	1500VdC Basic	102	—	21.5	155	40 & 40	9.3

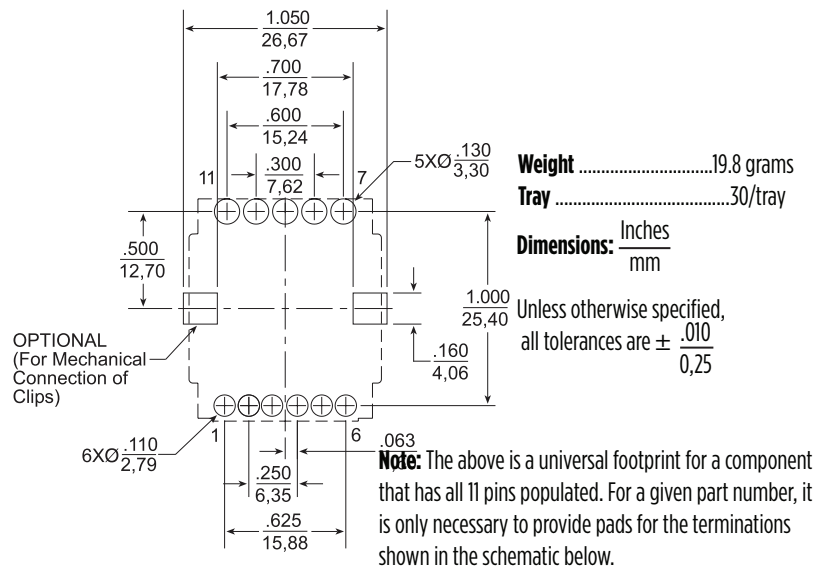
Notes: **Leakage inductance is measured with both primary windings connected in series (where applicable) with the secondary windings shorted.

Mechanical

PA0442NL / PA05XXNL



SUGGESTED PAD LAYOUT



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

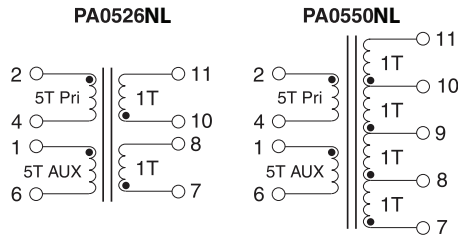
High Frequency Planar Transformers

Prism Series (up to 250W)

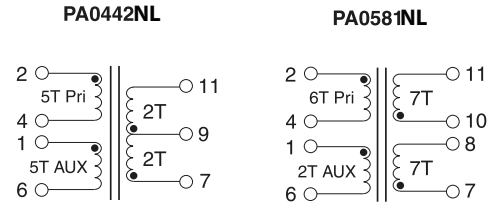
Schematics

PA0442NL / PA05XXNL

— DOUBLE INTERLEAVE SCHEMATICS —

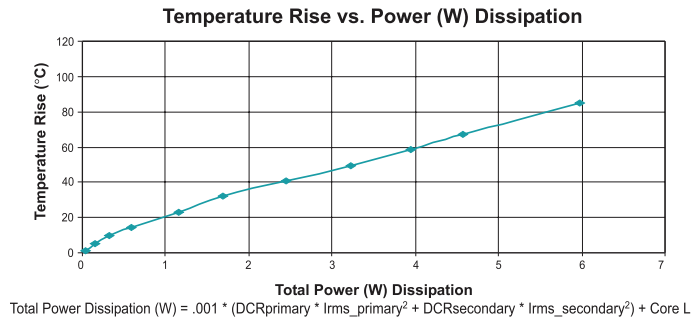
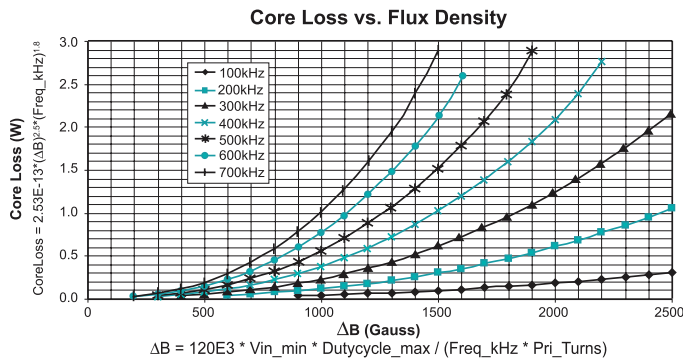


— SINGLE INTERLEAVE SCHEMATICS —



Notes from Tables:

- The above transformers have been tested and approved by Pulse's IC partners and are cited 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. Other winding configurations are available. Please contact Pulse Power Applications Engineering for more information.
- 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) does not exceed its operating temperature. To determine the approximate temperature rise of the temperature, refer to the graphs below.



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