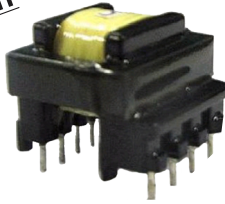


HIGH FREQUENCY WIRE WOUND TRANSFORMERS

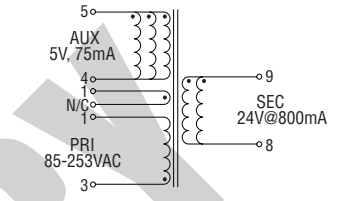
EI22 Platforms - THT



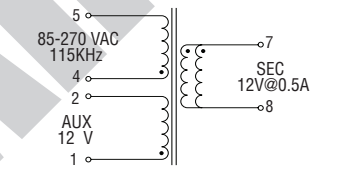
- AC/DC and DC/DC Switching Transformers
- Reinforced Insulation
- 3000Vrms Hi-Pot
- Topology: Flyback
- Custom Design Available

Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C¹

Part Number	Parameter	Winding	Value	Notes
PA2653NL	Pri. Inductance	(3 - 1)	910 $\mu\text{H} \pm 10\%$	
	Lk. Inductance	(3 - 1)	15 μH MAX	
		w/ (4, 5, 8, 9)	shorted	
	DCR	(3-1)	875	m Ω Max
		(5-4)	17.5	
(9-8)		75		
Hi-Pot	Pri-Sec	3000	Vrms	
K1 Factor		3616.8		
PA2813NL	Pri. Inductance	(4 - 5)	1200 $\mu\text{H} \pm 10\%$	
	Lk. Inductance	(4 - 5)	20 μH MAX	
		w/ (1, 2, 7, 8)	shorted	
	DCR	(4-5)	2500	m Ω Max
		(1-2)	200	
(7-8)		60		
Hi-Pot	Pri-Sec	3000	Vrms	
K1 Factor		5148		



CM - FLYBACK TRANSFORMER



FLYBACK TRANSFORMER

NOTES:

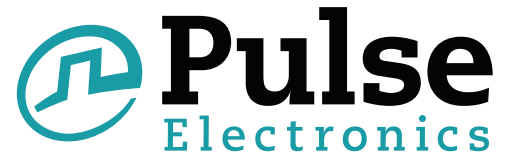
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- The above transformers and inductors have been tested and approved by Pulse's power IC partners and are sited in the appropriate datasheet or evaluation board documentation at these companies. To determine which IC and IC partners are matched with the above Pulse part numbers please consult the IC Cross Reference on the Pulse website.
- For flyback topology applications, it is necessary to ensure that the transformer will not saturate in the application. The peak flux density (Bpk) should remain below 2700Gauss. To calculate the peak flux density use the following formula:

$$\text{Bpk (Gauss)} = \text{K1_Factor} * \text{Ipk(A)}$$
- In high volt- μsec applications, it is important to calculate the core loss of the transformer. Approximate transformer core loss can be calculated as:

$$\text{CoreLoss (W)} = 4.1769 \times 10^{-7} \times (\text{Freq_kHz})^{1.62} \times (\text{DB_Gauss})^{2.65}$$
 where DB can be calculated as:
 For Flyback Topology: $\text{DB} = \text{K1_Factor} * \text{D(A)}$
 For Forward Topology: $\text{DB} = \text{K1_Factor} * \text{Volt-}\mu\text{sec}$
- The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact Pulse for availability.

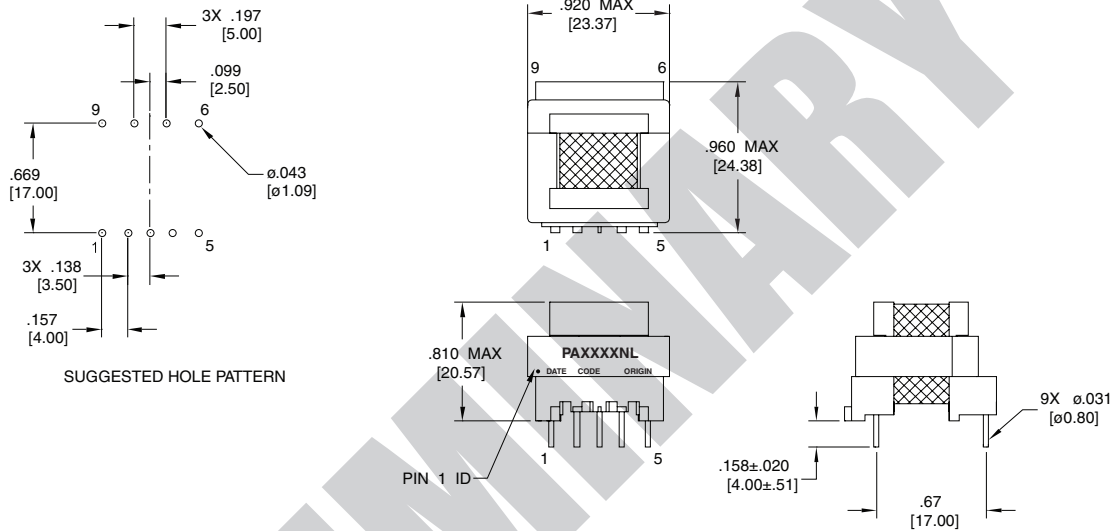
HIGH FREQUENCY WIRE WOUND TRANSFORMERS

EI22 Platforms - THT



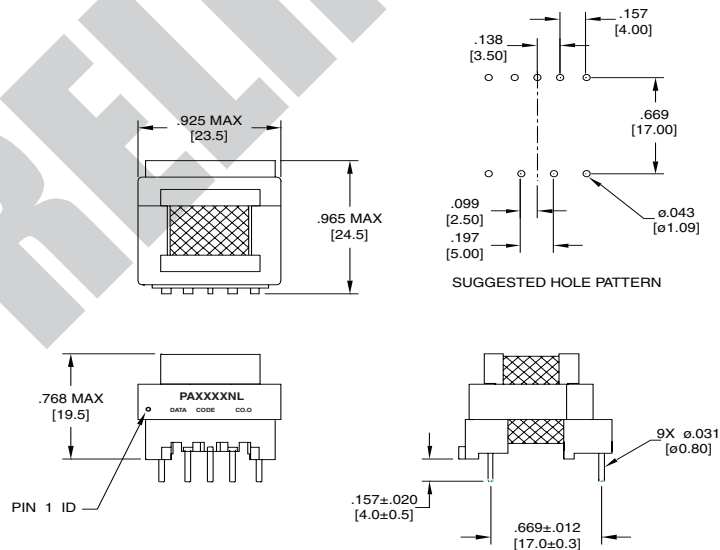
Mechanical

PA2653NL



Mechanical

PA2813NL



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