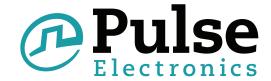
HIGH FREQUENCY WIRE WOUND TRANSFORMERS

El22 Platforms - THT





- AC/DC and DC/DC Switching Transformers
- Reinforced Insulation
- 2 3000Vrms Hi-Pot
- **Topology**: Flyback
- Custom Design Available

	Electr	ical Specifications @ 25°C — Ope	erating T	emperature	e-40°C to 130°C ¹	
PA2653NL	Pri. Inductance	(3 - 1)	910 μH ± 10%		50 200	
	Lk. Inductance	(3 - 1)	15 μH MAX		AUX	
	w/	(4, 5, 8, 9)	shorted		40-33	
		(3-1)	875		N/C SEC 24V@800mA	
	DCR	(5-4)	17.5	m Ω Max		
		(9-8)	75		85-253VAC 8	
	Hi-Pot	Pri-Sec	3000 Vrms		CM - FLYBACK TRANSFORMER	
	K1 Factor	3616.8				
PA2813NL	Pri. Inductance	(4 - 5)	1200 μH ± 10%			
	Lk. Inductance	(4 - 5)	20 μH MAX		5 0 85-270 VAC 7	
	w/	(1, 2, 7, 8)	shorted		115KH7 < (• (•	
		(4-5)	2500		\$ SEC 4 0 12V@0.5A	
	DCR	(1-2)	200	m Ω Max	AUX 3	
		(7-8)	60		12 V 1 •————————————————————————————————————	
	Hi-Pot	Pri-Sec Pri-Sec	3000 Vrms		FLYBACK TRANSFORMER	
	K1 Factor	5148				

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 andIC 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:

Bpk (Gauss) = K1_Factor * Ipk(A)

4. In high volt-usec applications, it is important to calculate the core loss of the transformer. Approximate transformer core loss can be calculated as: CoreLoss (W) = 4.1769x10 ⁻⁷ x(Freq_kHz)^{^1.62} x (DB_Gauss)^{^2.65} where DB can be calculated as:

For Flyback Topology: DB = K1_Factor * D(A) For Forward Topology: DB = K1_Factor * Volt-µsec

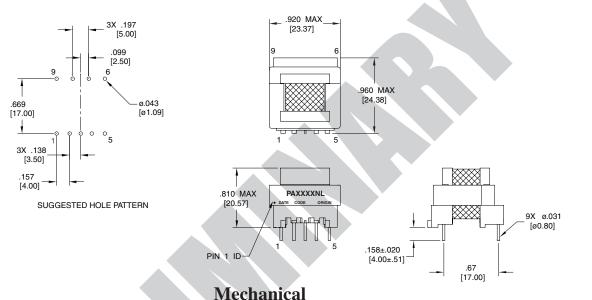
The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed
parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL"
suffix, but an RoHS compliant version is required, please contact Pulse for
availability.

HIGH FREQUENCY WIRE WOUND TRANSFORMERS **El22 Platforms - THT**

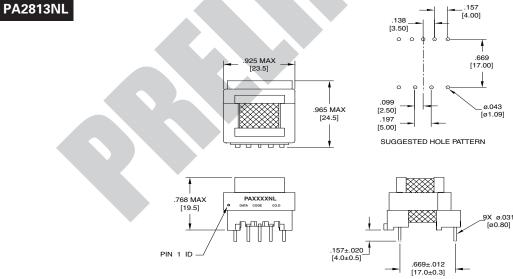


Mechanical









For More Information:

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