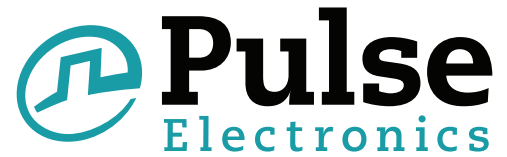


HIGH FREQUENCY WIRE WOUND TRANSFORMERS

EF25 Platforms - THT Type



- 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	Value	Notes	Diagram		
PA2380NL	Pri. Inductance	(10-9)	396.9 μ H \pm 10%	<p>DM FLYBACK TRANSFORMER</p>		
	Lk. Inductance	(10-9)	13.8 μ H MAX			
	w/	(1,2,4,5,6,7)	shorted			
	DCR		(10-9)		515	m Ω Max
			(7-6)		25	
			(2-1)		305	
(5-4)			31			
Hi-Pot	Pri-Sec	3000	Vrms			
K1 Factor		1557.7				
PA2942NL	Pri. Inductance	(3-2)	137.0 μ H \pm 5%	<p>DM FLYBACK TRANSFORMER</p>		
	Lk. Inductance	(3-2)	10 μ H MAX			
	w/	(4,5,7,8,9,10)	shorted			
	DCR		(3-2)		300	m Ω Max
			(7-8)		47.5	
			(10-9)		49.5	
(4-5)			66			
Hi-Pot	Pri-Sec	3000	Vrms			
K1 Factor		675.5				

NOTES:

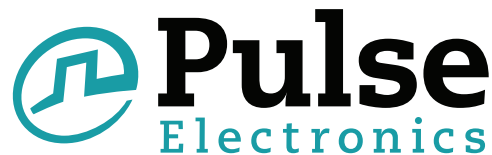
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- For flyback topology applications, it is necessary to ensure that the transformer will not saturate in the application. The peak flux density (Bpk) should remain below 2700Gauss. To calculate the peak flux density use the following formula:

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

$$CoreLoss \text{ (W)} = 3.9E-13 * (Freq_kHz)^{1.63} * (DB_Gauss)^{2.63}$$
 where DB can be calculated as:
 For Flyback Topology: $DB = K1_Factor * D(A)$
 For Forward Topology: $DB = K1_Factor * Volt\text{-}\mu\text{sec}$
- 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.

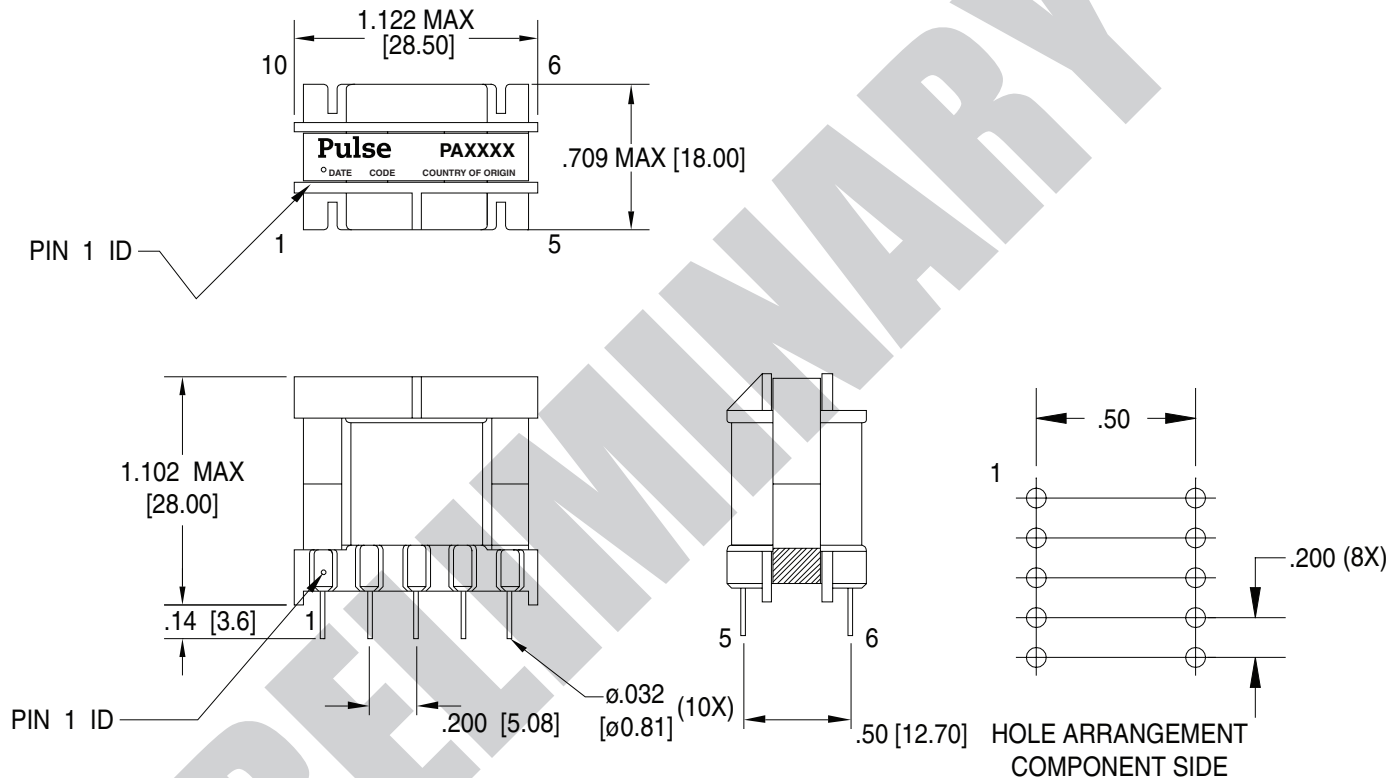
HIGH FREQUENCY WIRE WOUND TRANSFORMERS

EF25 Platforms - THT Type



Mechanical

PAXXXX



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