

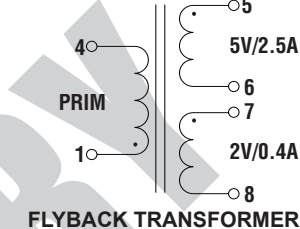
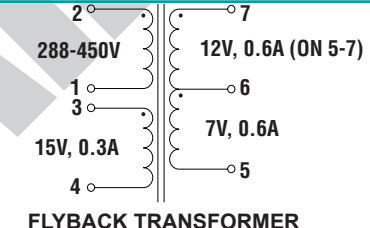
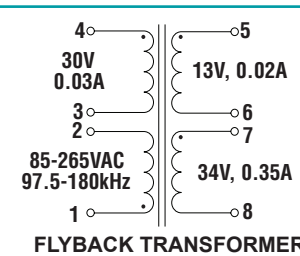
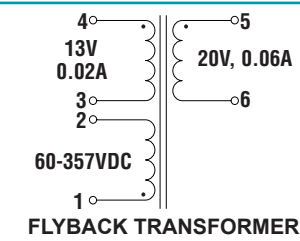
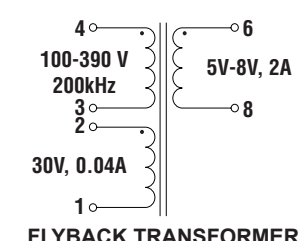
High Frequency Wire Wound Transformers

EF20 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

PF0586NL	Pri. Inductance	(1-4)	1.64 mH NOM.		
	Lk. Inductance w/		μ H MAX shorted		
	DCR	(1-4)	2800	m Ω Max	
		(7-8)	17.5		
		(5-6)	7.3		
	Hi-Pot	Pri-Sec	4200 Vrms		
K1 Factor	5229.6				
PA2872NL	Pri. Inductance	(2-1)	1800 μ H +/- 10%		
	Lk. Inductance w/	(2-1) (5,6,7)	42 μ H MAX shorted		
	DCR	(2-1)	2020	m Ω Max	
		(5-7)	210		
		(3-4)	510		
	Hi-Pot	Pri-Sec	3000 Vrms		
K1 Factor	4687.5				
PA2959NL	Pri. Inductance	(1-2)	380 μ H +/- 20%		
	Lk. Inductance w/	(1-2) (3,4,5,6,7,8)	5.6 μ H MAX shorted		
	DCR	(1-2)	740	m Ω Max	
		(4-3)	1050		
		(5-6)	240		
		(7-8)	280		
Hi-Pot	Pri-Sec	3000 Vrms			
K1 Factor	3044.8				
PA2979NL	Pri. Inductance	(1-2)	864 μ H +/- 20%		
	Lk. Inductance w/	(1-2) (3,4,5,6)	TBD μ H MAX shorted		
	DCR	(1-2)	1000	m Ω Max	
		(4-3)	6800		
		(5-6)	300		
	Hi-Pot	Pri-Sec	3000 Vrms		
K1 Factor	2755.1				
PA3072NL	Pri. Inductance	(4-3)	290 μ H +/- 10%		
	Lk. Inductance w/	(4-3) (2,1,6,8)	7.4 μ H MAX shorted		
	DCR	(4-3)	560	m Ω Max	
		(6-8)	22		
		(2-1)	160		
Hi-Pot	Pri-Sec	3000 Vrms			
K1 Factor	1295				

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

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NOTES:

1. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
2. 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:

$$B_{pk} \text{ (Gauss)} = K1_Factor * I_{pk}(A)$$

3. In high volt-μsec applications, it is important to calculate the core loss of the transformer

Approximate transformer core loss can be calculated as:

$$CoreLoss \text{ (W)} = 3.97444 \times 10^{-7} \times (Freq_kHz)^{1.62} \times (DB_Gauss)^{2.65}$$

where DB can be calculated as:

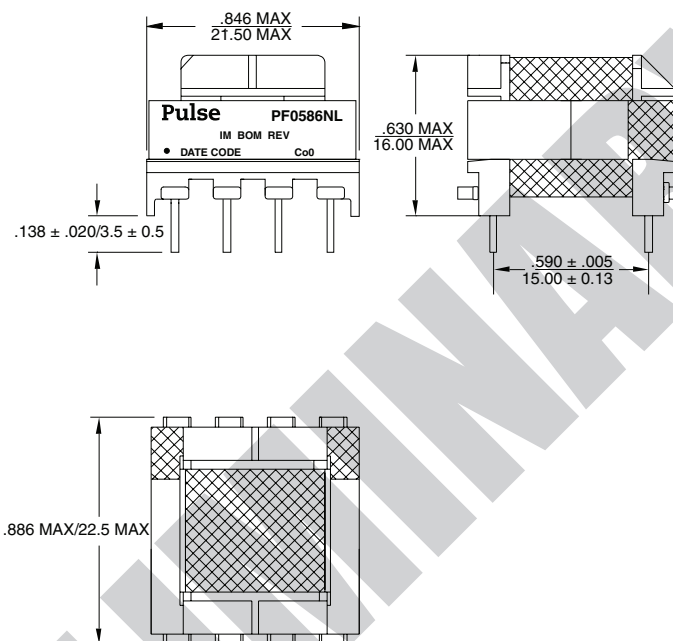
For Flyback Topology: $DB = K1_Factor * D(A)$

For Forward Topology: $DB = K1_Factor * Volt\text{-}\mu sec$

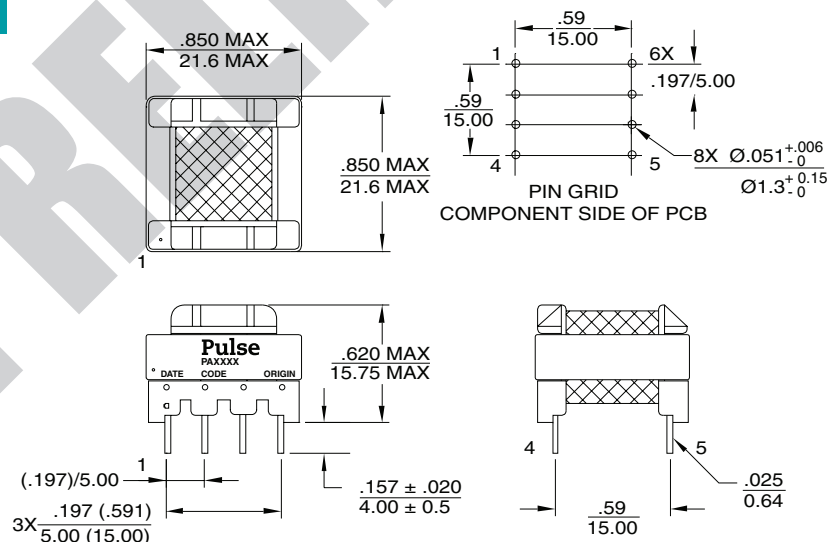
4. The "NL" suffix indicates an RoHS-compliant part number.

Mechanicals

PF0586NL



PA2872NL, PA2959NL, PA2979NL

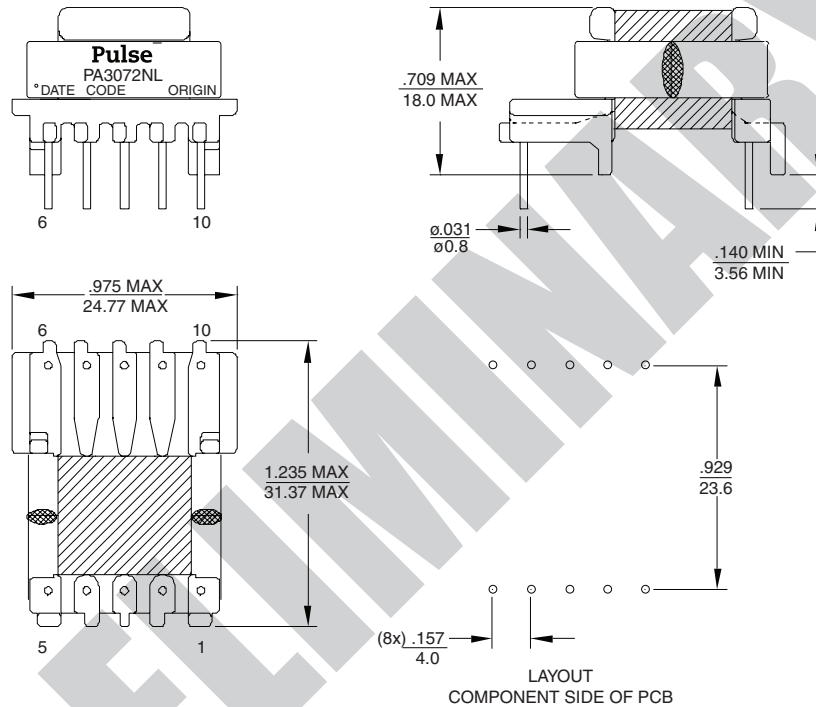


High Frequency Wire Wound Transformers

EF20 Platforms - THT Type

Mechanical (continued)

PA3072NL



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