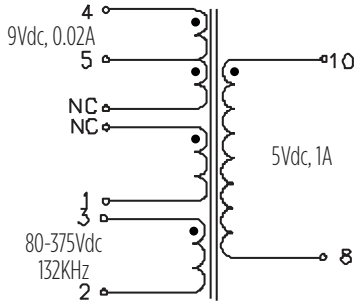
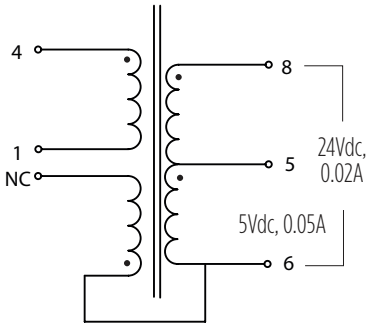
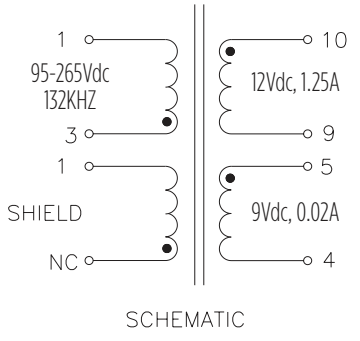
Switch Mode Transformer for AC/DC offline Applications

EE16H, EE16V, EF20H and EF25V Platforms

- *AC/DC offline Switch Mode Transformer*
- *Hipot up to 3000Vrms*
- *Flyback Topology*
- *Operational Insulation*
- *Matched to Tiny Switch and Top Switch chipsets*
- *Custom Design Available: <60W with up to Reinforced Insulation*

Electrical Specifications @ 25C- Operating Temperature -40C to +125C					
PH0256NL	Pri. Inductance	(3-2)	2800µH±15%		
	Lk. Inductance w/	(4,5,8,10)	65µH max shorted		
	DCR	(3-2)	3.3	ΩMax	
		(10-8)	0.02		
		(4-5)	0.13		
	Hi-Pot	Pri-Sec	500 Vrms		
	K1 Factor			10100	
	PI IC's	TNY264/274			FLYBACK TRANSFORMER
PH0259NL	Pri. Inductance	(4-1)	1800µH±15%		
	Lk. Inductance w/	(5,6,7,8)	60µH max shorted		
	DCR	(4,1)	2.556	ΩMax	
		(5-6)	0.0168		
		(8-6)	0.174		
	Hi-Pot	Pri-Sec	500 Vrms		
	K1 Factor			7200	
	PI IC's	TNY266/274			FLYBACK TRANSFORMER
PH0262NL	Pri. Inductance	(3-1)	790µH±10%		 SCHEMATIC
	Lk. Inductance w/	(3-1) (4,5,9,10)	30µH max shorted		
	DCR	(3-1)	1.085	ΩMax	
		(4-5)	0.015		
		(10-9)	0.026		
	Hi-Pot	Pri-Sec			
	K1 Factor			4030	
	PI IC's			TNY279	FLYBACK TRANSFORMER

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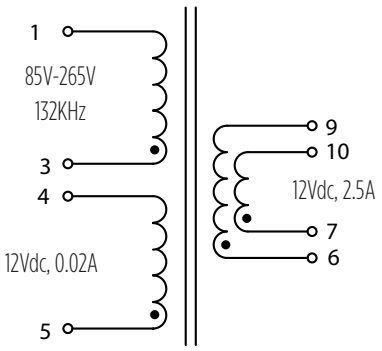
PH0270NL	Pri. Inductance	(3-1)	876 µH±10%		
	Lk. Inductance w/	(3-1) (4,5,6,7,9,10)	28µH max shorted		
	DCR	(3-1)	0.5	ΩMax	
		(4-5)	0.026		
		(9-10)	0.025		
	Hi-Pot	Pri-Sec	1500 Vrms		
	K1 Factor		2900		
	PI IC's		TOP244/245/246/254/264		

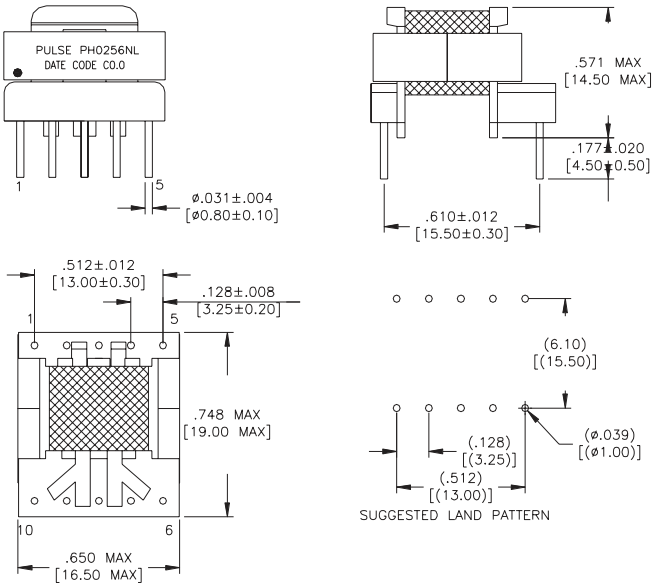
FLYBACK TRANSFORMER

Notes:

1. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
2. 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.
3. 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 density, use the following formula: Bpk (Gauss) = K1_Factor * Ipk (A)
4. In high volt-sec applications, it is important to calculate the core loss of the transformer. Approximate transformer core loss can be calculated as: CoreLoss (W) = 3.6E-14 * (Freq_kHz) * (ΔB_Gauss) where ΔB can be calculated as: For Flyback Topology: ΔB = K1_Factor * Δ(A) For Forward Topology: ΔB = K1_Factor * Volt-µsec
5. 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.

Mechanical

PH0256NL



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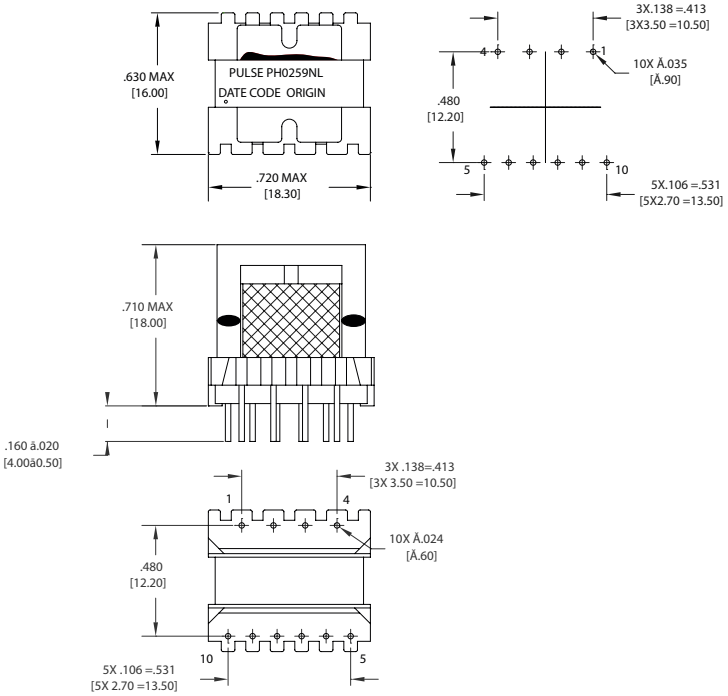
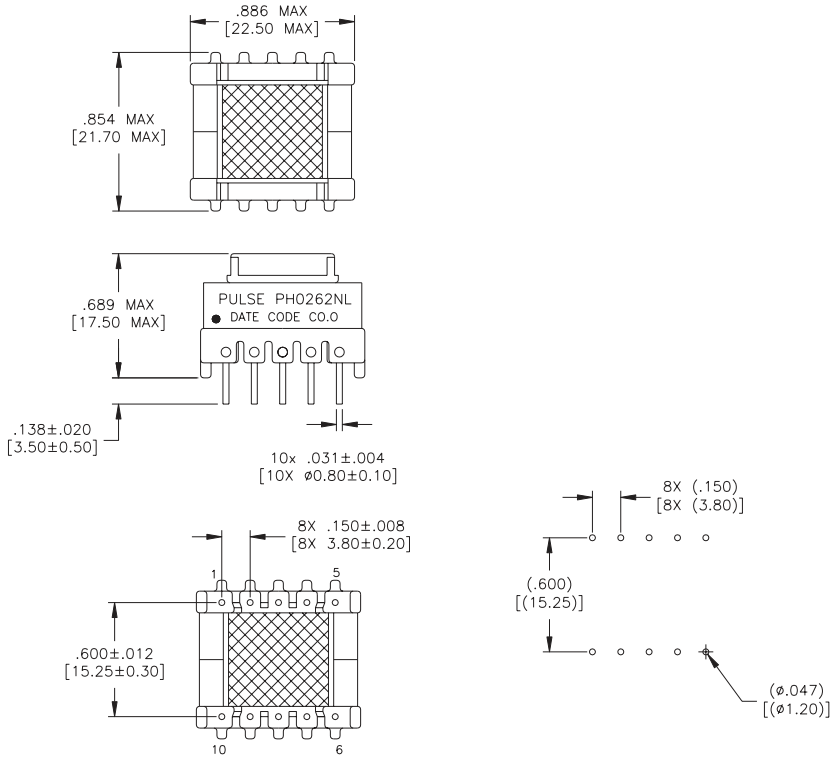
Mechanical

PH0259NL



Mechanical

PH0262NL



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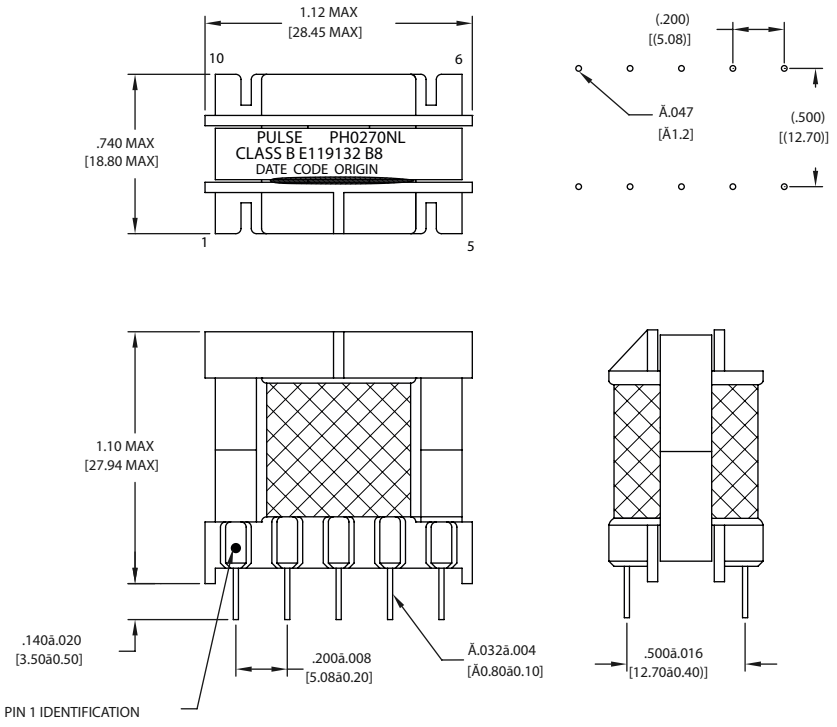
Mechanical

PH0270NL



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