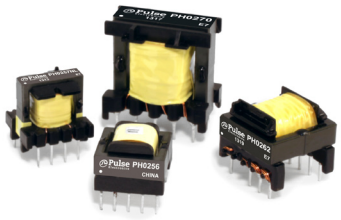
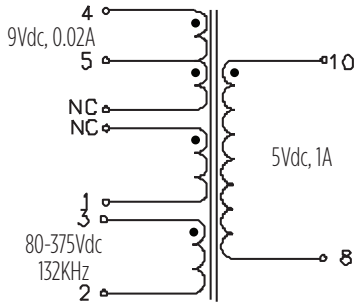
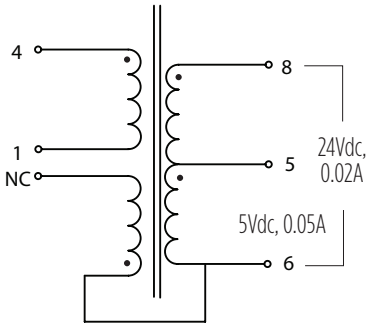
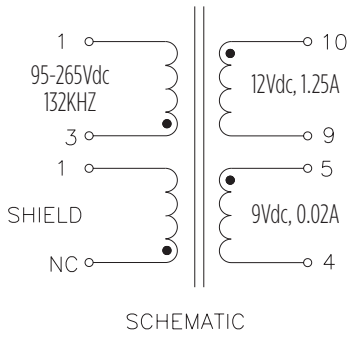
Switch Mode Transformer for AC/DC offline Applications

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%		 FLYBACK TRANSFORMER
	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			
PH0259NL	Pri. Inductance	(4-1)	1800µH±15%		 FLYBACK TRANSFORMER
	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			
PH0262NL	Pri. Inductance	(3-1)	790µH±10%		 SCHEMATIC FLYBACK TRANSFORMER
	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			

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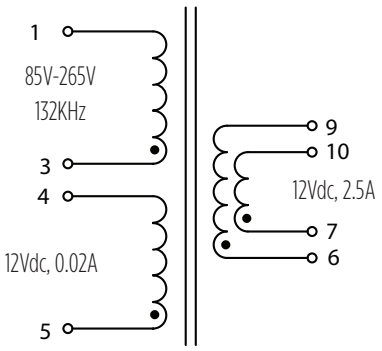
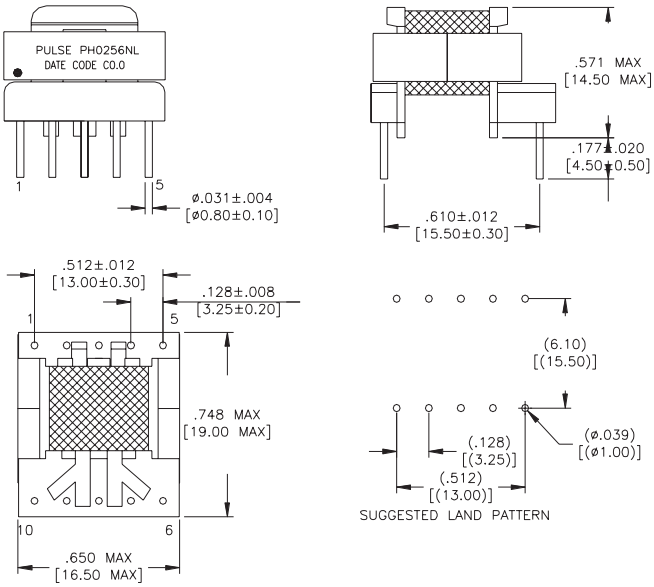
PH0270NL	Pri. Inductance	(3-1)	876 µH±10%		
	Lk. Inductance w/	(3-1) (4,5,6,7,9,10)	28µH max shorted		
	DCR	(3-1)	0.5	ΩMax	
		(4-5)	0.026		
		(9-10)	0.025		
	Hi-Pot	Pri-Sec	1500 Vrms		
	K1 Factor		2900		
	PI IC's		TOP244/245/246/254/264		FLYBACK TRANSFORMER

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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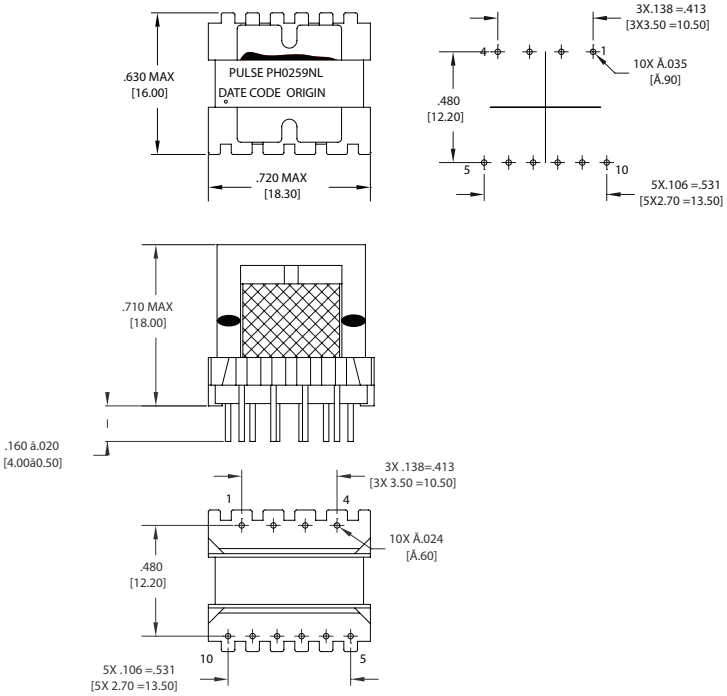
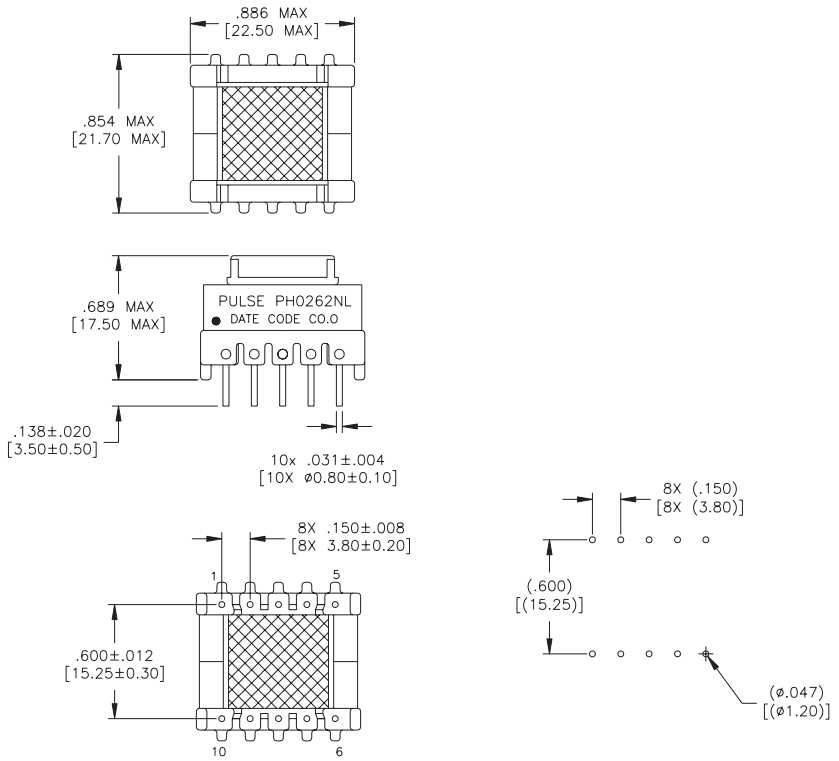
Mechanical

PH0259NL



Mechanical

PH0262NL



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EE16H, EE16V, EF20H and EF25V Platforms

Mechanical

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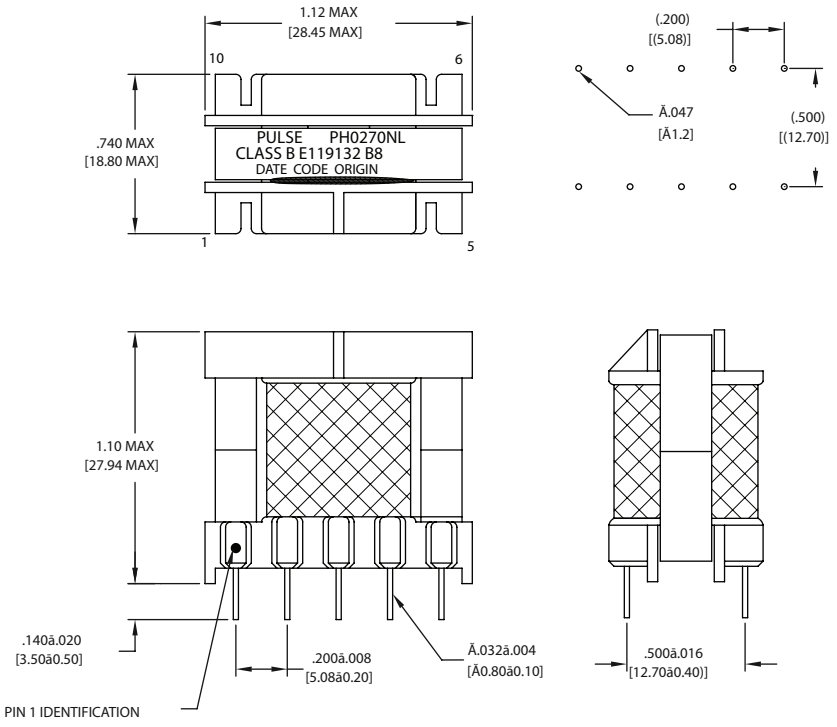

For More Information

Pulse Worldwide Headquarters
15255 Innovation Drive Ste 100
San Diego, CA 92128
U.S.A.

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe
Pulse Electronics GmbH
Am Rottland 12
58540 Meinerzhagen
Germany

Tel: 49 2354 777 100
Fax: 49 2354 777 168

Pulse China Headquarters
Pulse Electronics (ShenZhen) CO., LTD
D708, Shenzhen Academy of Aerospace Technology,
The 10th Keji South Road,
Nanshan District, Shenzhen, P.R. China 518057

Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China
Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Tel: 86 21 62787060
Fax: 86 2162786973

Pulse South Asia
3 Fraser Street
0428 DUO Tower
Singapore 189352

Tel: 65 6287 8998
Fax: 65 6280 0080

Pulse North Asia
1F, No.111
Xiyuan Road
Zhongli District
Taoyuan City 32057
Taiwan (R.O.C)

Tel: 886 3 4356768
Fax: 886 3 4356820

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