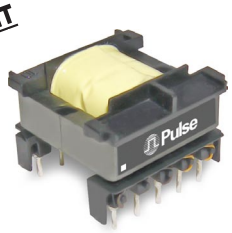
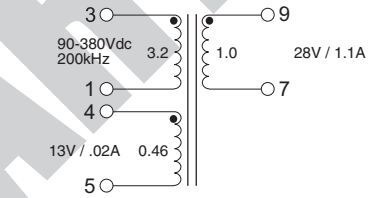
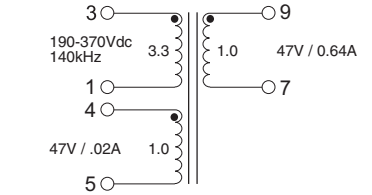
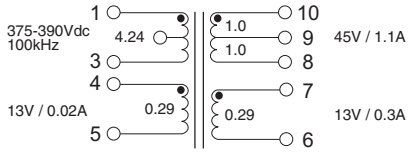
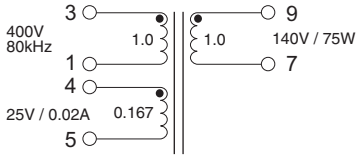
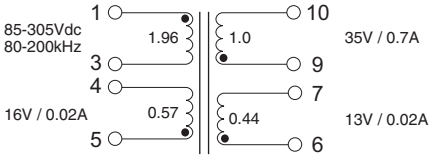
HIGH FREQUENCY WIRE WOUND TRANSFORMERS

EF25 Platforms - THT Horizontal



- **AC/DC and DC/DC Switching Transformers**
- **Reinforced Insulation**
- **3000 Vrms Hi-pot**
- **Height:** 20.8mm Max
- **Footprint:** 29.2mm x 27.9mm Max
- **Topology:** Flyback

Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C [5]

PA1297NL	Pri. Inductance	(3-1)	380µH ±10%	
	Lk. Inductance	(3-1) with (7-9) shorted	11µH MAX	
	DCR	(3-1)	945mΩ MAX	
		(9-7)	40mΩ MAX	
		(4-5)	85mΩ MAX	
	Hi-Pot	Pri-Sec	3000Vrms	
	K1 Factor	1528.3		
PA2547NL	Pri. Inductance	(3-1)	1850µH ±15%	
	Lk. Inductance	(3-1) with (7-9) shorted	21µH MAX	
	DCR	(3-1)	930mΩ MAX	
		(9-7)	223mΩ MAX	
		(4-5)	408mΩ MAX	
	Hi-Pot	Pri-Sec	3000Vrms	
	K1 Factor	4152.8		
PA2611NL	Pri. Inductance	1-3)	9850µH ±15%	
	Lk. Inductance	(1-3) with (6,7,8,9,10) shorted	40µH MAX	
	DCR	(1-3)	790mΩ MAX	
		(10-8)	220mΩ MAX	
		(7-6)	15mΩ MAX	
		(4-5)	80mΩ MAX	
	Hi-Pot	Pri-Sec	3000Vrms	
	K1 Factor	2.7		
PA2676NL	Pri. Inductance	(3-1)	860µH ±15%	
	Lk. Inductance	(3-1) with (7-9) shorted	78µH MAX	
	DCR	(3-1)	910mΩ MAX	
		(9-7)	3050mΩ MAX	
		(4-5)	350mΩ MAX	
	Hi-Pot	Pri-Sec	4000Vrms	
	K1 Factor	1537.3		
PA2804NL	Pri. Inductance	(1-3)	275µH ±10%	
	Lk. Inductance	(1-3) with (4,5,6,7,8,9,10) shorted	8.4µH MAX	
	DCR	(1-3)	250mΩ MAX	
		(9-10)	160mΩ MAX	
		(5-4)	400mΩ MAX	
		(6-7)	311mΩ MAX	
	Hi-Pot	Pri-Sec	3000Vrms	
	K1 Factor	1179.8		

HIGH FREQUENCY WIRE WOUND TRANSFORMERS

EF25 Platforms - THT Vertical

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 flux density use the following formula:

   Bpk (Gauss) = K1_Factor * Ipk(A)

4. In high volt-µsec applications, it is important to calculate the core loss of the transformer. Approximate transformer core loss can be calculated as:

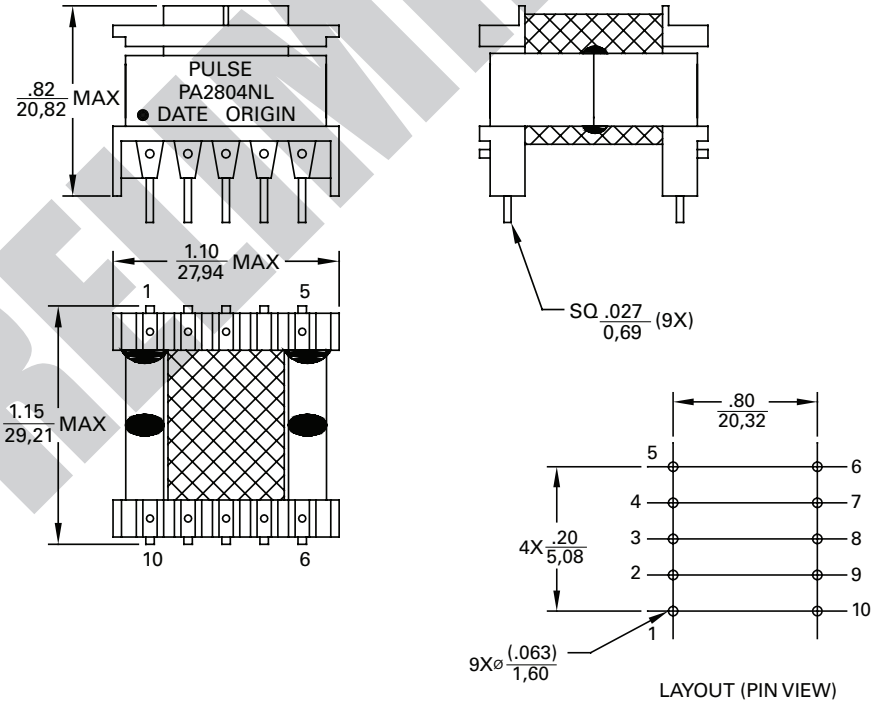
   CoreLoss (W) = 3.9E-13 * (Freq_kHz)$^{1.63}$ * (ΔB_Gauss)$^{2.63}$

   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



LAYOUT (PIN VIEW)

For More Information:

Pulse Worldwide Headquarters
12220 World Trade Dr.
San Diego, CA 92128
U.S.A.

www.pulseeng.com
Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Pulse China Headquarters
B402, Shenzhen Academy of Aerospace Technology Bldg.
10th Kejinan Rd.
High-Tech Zone
Nanshan District
Shenzen, PR China 518057

TEL: 86 755 33966678
FAX: 86 755 33966700

Pulse North China
Room 1503
XinYin Building
No. 888 YiShan Rd.
Shanghai 200233
China

Tel: 86 21 54643211/2
Fax: 86 21 54643210

Pulse South Asia
135 Joo Seng Rd.
#03-02
PM Industrial Bldg.
Singapore 368363

TEL: 65 6287 8998
FAX: 65 6280 0080

Pulse North Asia
No. 26, Kao Ching Rd.
Yang Mei Chen
Taoyuan Hsien
Taiwan
R. O. C.

Tel: 886 3 4643715
Fax: 886 3 4641911

单击下面可查看定价，库存，交付和生命周期等信息

>>Pulse(普思)