

# SMT TRANSFORMERS

## Low Power Flyback Transformers (Up to 2W)

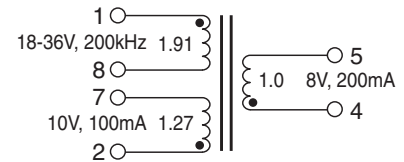
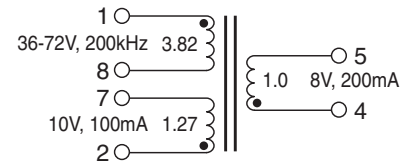
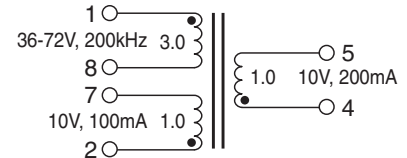


- Height:** 7.6mm Max
- Footprint:** 9.0mm x 8.6mm Max
- 1500V<sub>DC</sub> Hi-Pot with Basic Insulation (1.4mm creepage/clearance)**

### Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C<sup>5</sup>

Part Number	Parameter	Value	Notes
PA0648NL	Pri. Inductance	(1-8)	247µH ±20%
	Pri. Inductance	(1-8)	170µH MIN @ 0.5Apk
	Lk. Inductance	(1-8) with (2,4,5,7) shorted	5.5µH MAX
	DCR	(1-8)	2100mΩ MAX
		(2-7)	750mΩ MAX
		(4-5)	750mΩ MAX
	Hi-Pot	Pri-Sec	1500Vdc
K1 Factor		6838	
PA1546NL	Pri. Inductance	(1-8)	247µH ±20%
	Pri. Inductance	(1-8)	170µH MIN @ 0.5Apk
	Lk. Inductance	(1-8) with (2,4,5,7) shorted	8µH MAX
	DCR	(1-8)	2100mΩ MAX
		(2-7)	750mΩ MAX
		(4-5)	700mΩ MAX
	Hi-Pot	Pri-Sec	1500Vdc
K1 Factor		6838	
PA1788NL	Pri. Inductance	(1-8)	62µH ±20%
	Pri. Inductance	(1-8)	35µH MIN @ 1.0Apk
	Lk. Inductance	(1-8) with (2,4,5,7) shorted	3µH MAX
	DCR	(1-8)	720mΩ MAX
		(2-7)	750mΩ MAX
		(4-5)	700mΩ MAX
	Hi-Pot	Pri-Sec	1500Vdc
K1 Factor		3422	

### Schematics

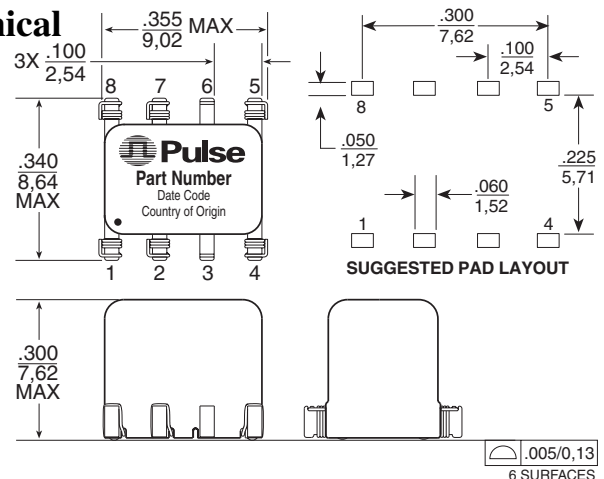


### NOTES:

- The peak flux density of the component should be kept below 3400 Gauss (25°C) and 2900 Gauss (100°C). To calculate the peak flux density in a given application, use the following formula:  

$$B_{pk} \text{ (Gauss)} = K1\_Factor * I_{primary\_pk}$$
- Leakage inductance is measured at primary terminals with all secondaries shorted.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PA0648NL becomes PA0648NLT). Pulse complies to industry standard tape and reel specification EIA481.
- 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.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

### Mechanical



Weight . . . . . 0.60 grams  
 Tape & Reel . . . . . 400/reel  
 Tube . . . . . 50/tube

Dimensions: Inches  
 mm  
 Unless otherwise specified,  
 all tolerances are ± .010  
 0,25

### For More Information:

#### Pulse Worldwide Headquarters

12220 World Trade Dr.  
 San Diego, CA 92128  
 U.S.A.  
[www.pulseeng.com](http://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 12

#### Pulse China Headquarters

B402, Shenzhen Academy of  
 Aerospace Technology Building  
 10th Kejinan Rd.  
 High-Tech Zone  
 Nanshan District, Shenzhen  
 P.R. 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 32181071  
 Fax: 86 21 32181396

#### Pulse South Asia

150 Kampong Ampat  
 #07-01/02  
 KA Centre  
 Singapore 368324

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.  
 32667

Tel: 886 3 4643715  
 Fax: 886 3 4641911

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