

SMT TRANSFORMERS

Low Power Flyback Transformers (Up to 2W)

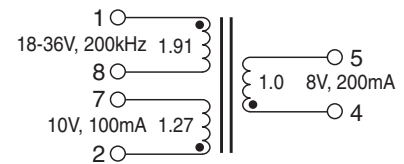
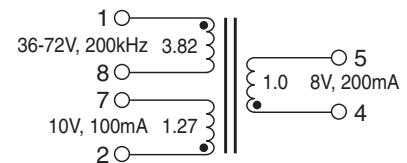
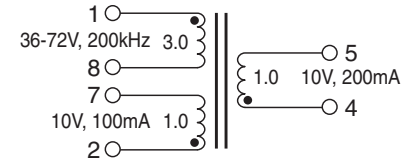


-  **Height:** 7.6mm Max
-  **Footprint:** 9.0mm x 8.6mm Max
-  **1500V_{DC} Hi-Pot with Basic Insulation (1.4mm creepage/clearance)**

Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C⁵

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
PA1546NL	K1 Factor	6838	
	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
PA1788NL	Hi-Pot	Pri-Sec	1500Vdc
	K1 Factor	6838	
	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

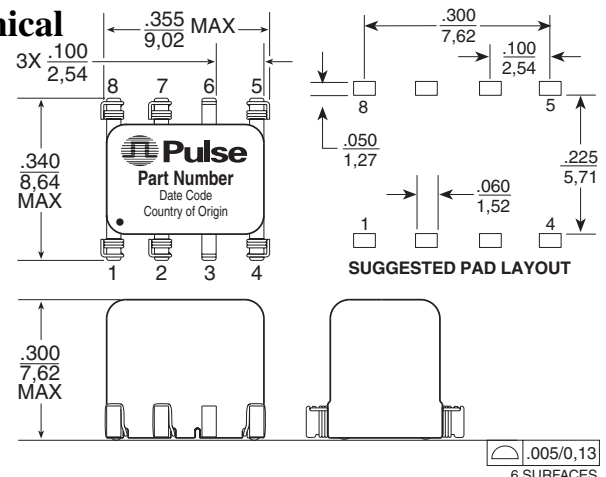


NOTES:

- 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:

$$\text{Bpk (Gauss)} = \text{K1_Factor} * \text{Iprimary_pk}$$
- 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



Weight060 grams
Tape & Reel400/reel
Tube50/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

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 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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P665.A (3/08)