

# 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>

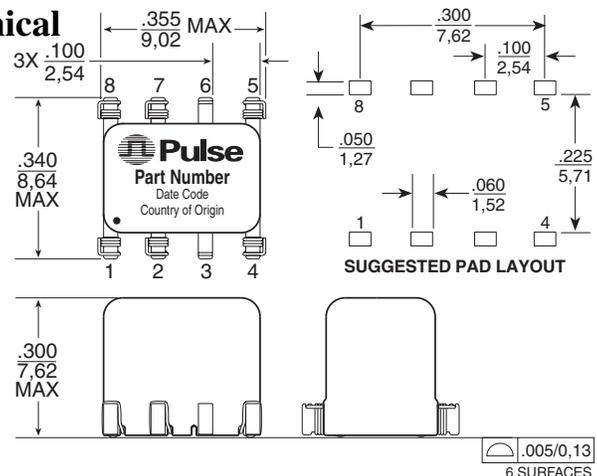
Part Number	Parameter	Value	Notes	Schematics
PA0648NL	Pri. Inductance	(1-8)	247µH ±20%	
	Pri. Inductance	(1-8)	170µH MIN @ 0.5Apk	
	Lk. Inductance	(1-8) with (2,4,5,7) shorted	5.5µH MAX	
	DCR	(1-8)	2100mΩ MAX	
		(2-7)	750mΩ MAX	
		(4-5)	750mΩ MAX	
	Hi-Pot	Pri-Sec	1500Vdc	
K1 Factor		6838		
PA1546NL	Pri.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

#### 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

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P665.A (3/08)