

SMT TRANSFORMERS

Low Power Flyback Transformers (Up to 2W)

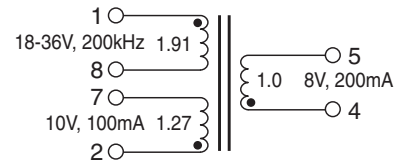
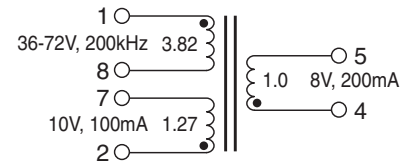
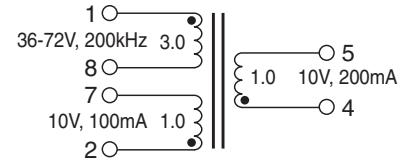


- Height:** 7.6mm Max
- Footprint:** 9.0mm x 8.6mm Max
- 1500V_{DC} Hi-Pot with Basic Insulation (1.4mm creepage/clearance)**

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

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

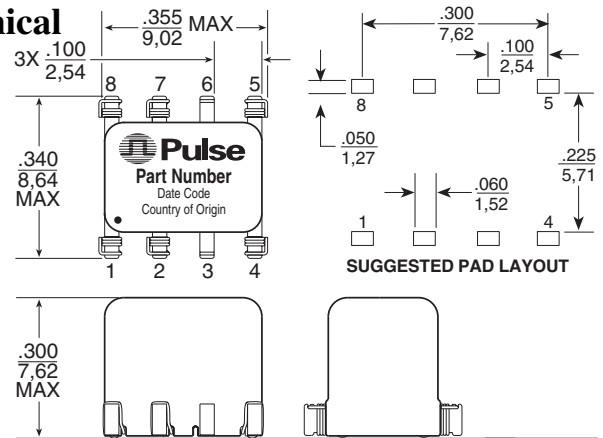


NOTES:

- 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:

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

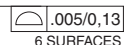
Mechanical



SUGGESTED PAD LAYOUT

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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