

# HIGH FREQUENCY PLANAR TRANSFORMERS

## PA003X Series (up to 30W)



- Power Rating:** up to 30W
- Height:** 7.4mm Max
- Footprint:** 19.6mm x 18.0mm Max
- Frequency Range:** 200kHz to 750kHz

### Electrical Specifications @ 25°C — Operating Temperature -40°C to 125°C

Part Number	Power Rating	Turns Ratio <sup>1</sup> (Pri:Sec)	Primary Secondary Isolation	Primary Inductance (μH MIN)	Leakage Inductance (μH MAX)	DCR (mΩ MAX)			Maximum Height (mm)
						Primary	Primary Aux.	Secondary	
PA0030	30W 24v to 3.3v/8A	6:2	1500 V <sub>DC</sub> Operational	52	0.85	43	N/A	2.7	7.4
PA0031	30W 48v to 3.3v/8A	12:2	1500 V <sub>DC</sub> Operational	200	1.7	210	N/A	3.5	7.4
PA0032 <sup>2</sup>	30W 24v to 5.0v/6A	6:3	1500 V <sub>DC</sub> Operational	52	0.27	43	N/A	10*	7.4
PA0033 <sup>2</sup>	30W 48v to 5.0v/6A	12:3	1500 V <sub>DC</sub> Operational	200	0.925	210	N/A	10*	7.4
PA0034	30W 24v to 12v/2.5A	6:6	1500 V <sub>DC</sub> Operational	52	0.27	43	N/A	43	7.4
PA0035	30W 48v to 12.0v/2.5A	12:8	1500 V <sub>DC</sub> Operational	200	0.98	210	N/A	75	7.4
PA0036	30W 24v to 15v/2.0A	6:8	1500 V <sub>DC</sub> Operational	52	0.195	43	N/A	75	7.4
PA0037	30W 48v to 15v/2.0A	12:8	1500 V <sub>DC</sub> Operational	200	0.98	210	N/A	75	7.4

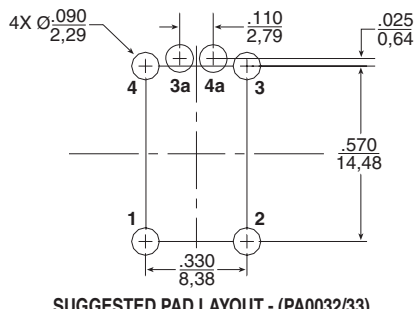
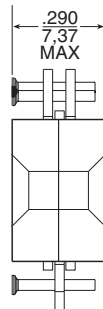
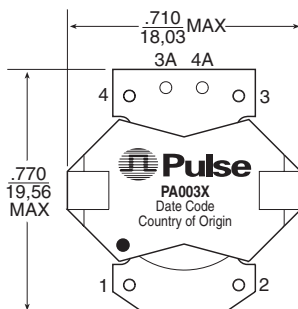
\*DCR rating for indicated parts is for both windings tied in parallel.

NOTES: 1. Other turns ratios may be available. Contact Pulse Applications Engineering for more information.

2. The secondary windings on PA0032 and PA0033 can be connected in series for a 6T secondary if required.

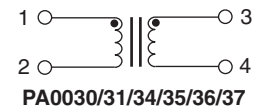
3. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number, (i.e. PA0037T).

## Mechanical

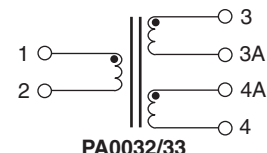


SUGGESTED PAD LAYOUT - (PA0032/33)

## Schematics



PA0030/31/34/35/36/37



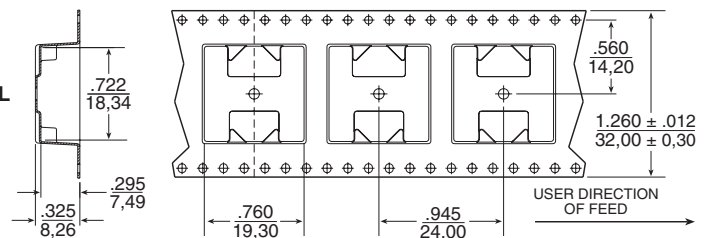
PA0032/33

Weight ..... 4.5 grams  
Tape & Reel ..... .250/reel  
Tray ..... .90/tray

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

### TAPE & REEL LAYOUT



## For More Information:

**Pulse Worldwide Headquarters**  
12220 World Trade Dr.  
San Diego, CA 92128  
U.S.A.  
[www.pulseeng.com](http://www.pulseeng.com)

**Pulse Europe**  
Einsteinstrasse 1  
D-71083 Herrenberg  
Germany

**Pulse China Headquarters**  
B402, Shenzhen  
Tech-Innovation International  
Tenth Kejinan Rd.  
High-Tech Industrial Park  
Nanshan District, Shenzhen  
China

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

**Pulse South Asia**  
150 Kampong Ampat  
#07-01/02  
KA Centre  
Singapore 368324

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

Tel: 858 674 8100  
Fax: 858 674 8262

Tel: 49 7032 7806 0  
Fax: 49 7032 7806 12

Tel: 86 755 33966678  
Fax: 86 755 33966700

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

Tel: 65 6287 8998  
Fax: 65 6280 0080

Tel: 886 3 4641811  
Fax: 886 3 4641911

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2007. Pulse Engineering, Inc. All rights reserved.

[www.pulseeng.com](http://www.pulseeng.com)

P536.C (5/07)