

# 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

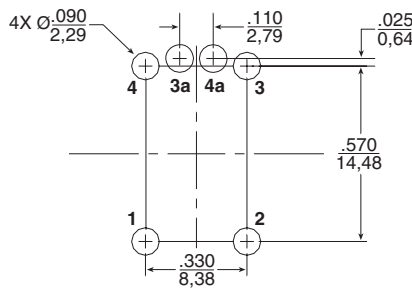
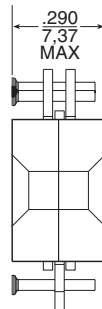
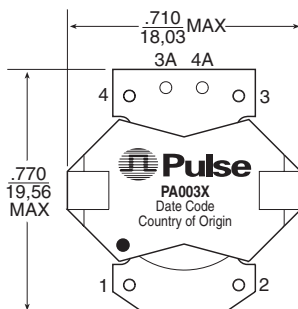
\* DCR rating for indicated parts is for both windings tied in series.

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.

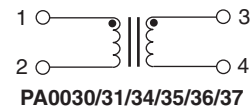
3. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number, (i.e. PA0037T).

### Mechanical

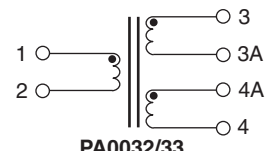


SUGGESTED PAD LAYOUT - (PA0032/33)

### Schematics



PA0030/31/34/35/36/37



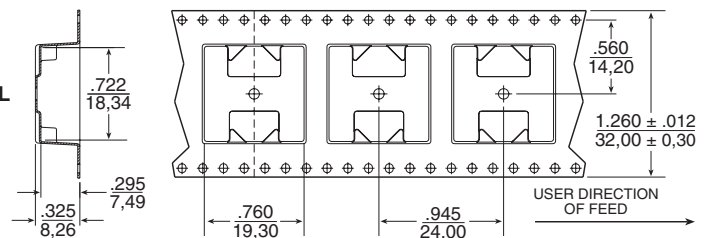
PA0032/33

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



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