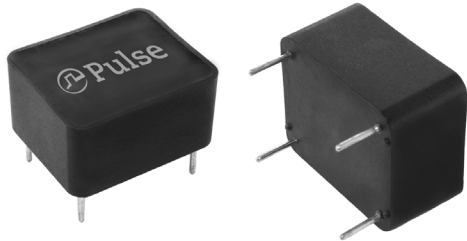


VOLTAGE SENSE TRANSFORMER

PA3000NL



- Ⓢ Transformer for isolating the AC line voltage to an IC A/D input
- Ⓢ 3000 VAC Reinforced Isolation
- Ⓢ Low Phase shift, less than $\pm 1.5^\circ$
- Ⓢ Small Size
- Ⓢ Lower Power Consumption

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

Part Number	Turns Ratio	INPUT VOLTAGE MAX (Vrms)	OUTPUT VOLTAGE MAX (Vrms)	Phase Shift	Freq(Hz)	HIPOT(VAC)
PA3000NL	1:1	3.0	3.0	$\pm 1.5^\circ$	50 or 60	3000

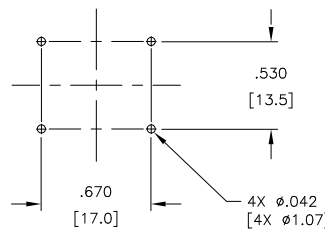
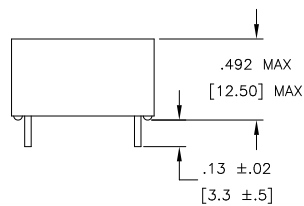
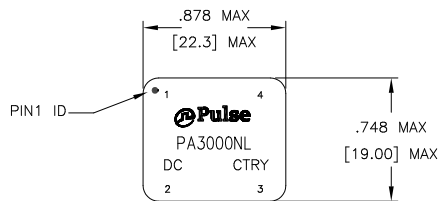
NOTES:

1. The transformer is design to provide isolation from the AC line voltage to an IC with a high input impedance, and minimum phase shift. The output sine wave will not be distorted if the input voltage does not exceed the maximum rating.
2. From the AC Voltage line, a resistor divider, R1 and R2, can be used to step the voltage down to below the maximum input voltage.
3. For R1, multiple lower value resistors can be used in series to reduce the voltage across each resistor .

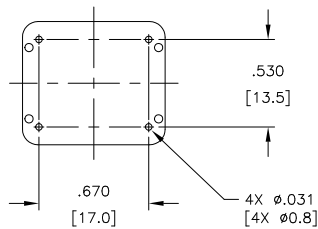
Mechanical

Schematic

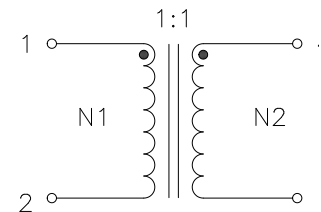
PA3000NL



RECOMMENDED PAD LAYOUT



FINAL OUTLINE



Weight10.86grams
Tray70/tray

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

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

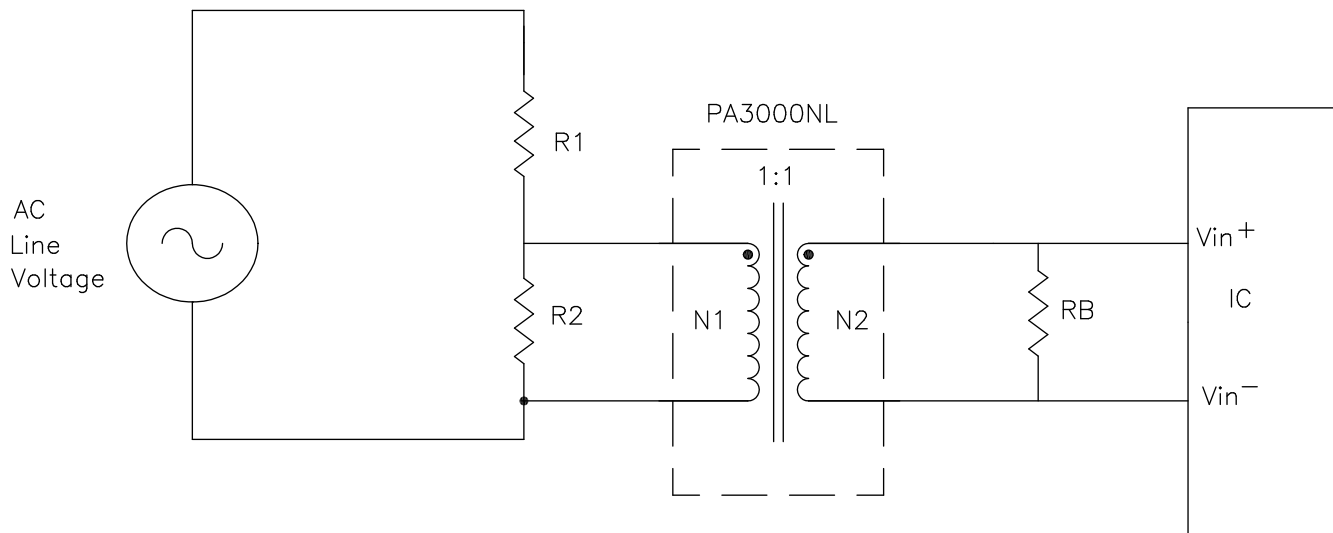
VOLTAGE SENSE TRANSFORMER

PA3000NL

PA3000NL

Recommended Application Circuit Resistor Values			
AC Line Voltage (Vrms)	R1 (Ω)	R2 (Ω)	RB (Ω)
120	50 K	750	500
240	100 K	750	500
408	200K	750	500

Typical Application Circuit



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