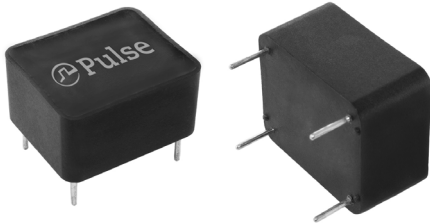


VOLTAGE SENSE TRANSFORMER

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

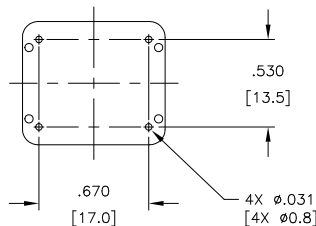
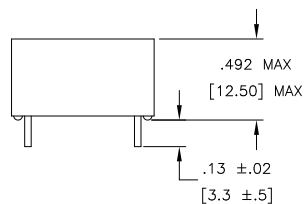
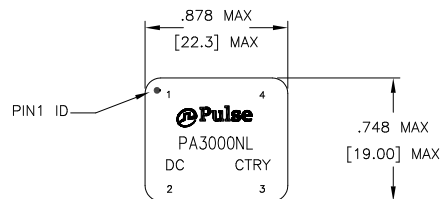
NOTES:

- 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.
- 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.
- For R1, multiple lower value resistors can be used in series to reduce the voltage across each resistor.

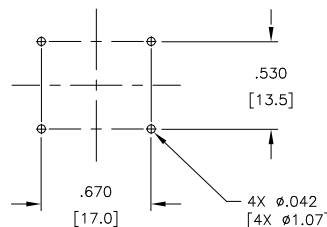
Mechanical

Schematic

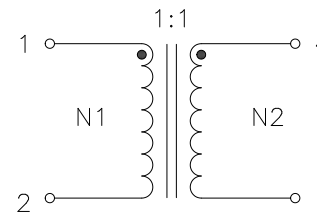
PA3000NL



FINAL OUTLINE



RECOMMENDED PAD LAYOUT



Weight10.86grams
Tray70/tray

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

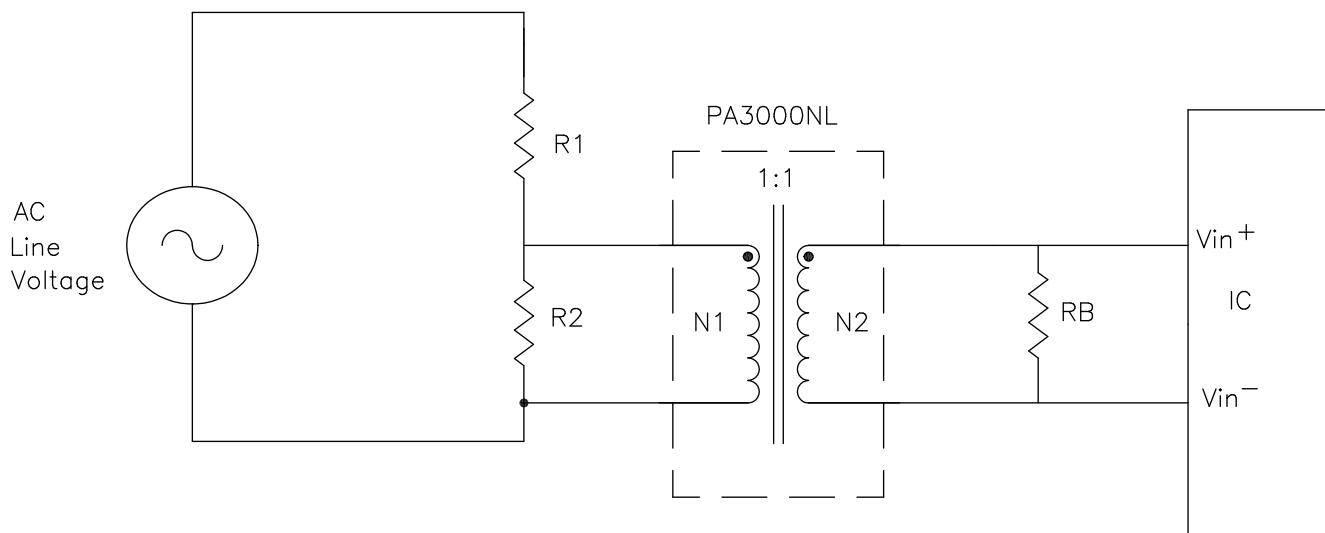
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

VOLTAGE SENSE TRANSFORMER

PA3000NL

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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