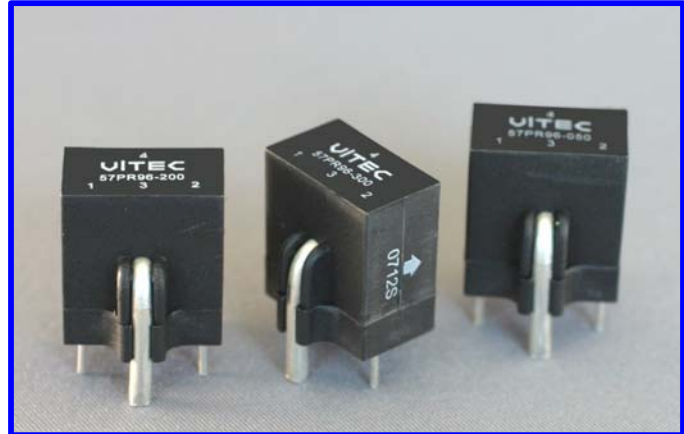


TYPE 57P96

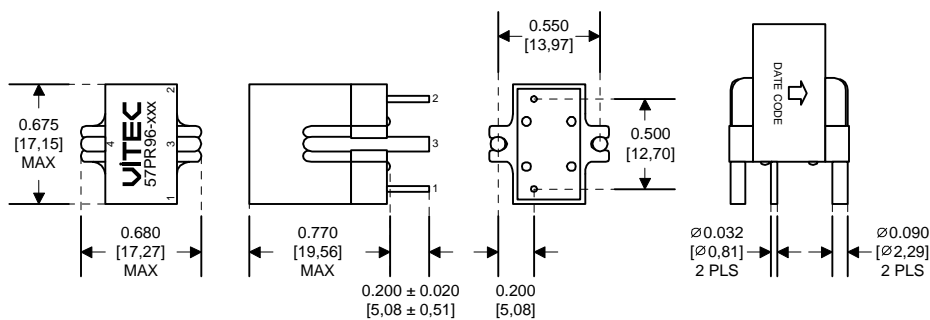
Current Sense Transformers

FEATURES

- Operating temperature from -40°C to 130°C.
- Manufactured to UL recognized 130°C insulation system.
- Materials meet flammability requirements for UL 94V-0.
- Frequency range from 10 KHz to 300 KHz.
- RoHS compliant version available.

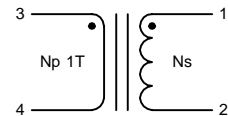


DRAWING

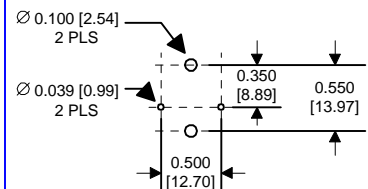


All dimensions given in inches [mm]. Tolerances unless otherwise specified: .XX±01 [X±25]; .XXX±005 [XX±13] Angular: ±1°

SCHEMATIC



SUGGESTED PCB LAYOUT



ELECTRICAL CHARACTERISTICS @ 25°C

Part Number		Secondary Inductance ⁽¹⁾	Turns Ratio	Primary DCR	Secondary DCR	Hipot (Pri-Sec)	Rated Current (Primary)
		mH	Ns:Np	mOhm	Ohm	VRMS	A RMS
Classic	RoHS	+/- 30%	+/- 1%	MAX	MAX	60 Hz 2 SEC	@ 40°C Trise
57P96-050	57PR96-050	7.40	50:1	0.20	0.375	3750	60
57P96-100	57PR96-100	29.60	100:1	0.20	1.150	3750	60
57P96-200	57PR96-200	118.00	200:1	0.20	4.000	3750	60
57P96-300	57PR96-300	267.00	300:1	0.20	7.000	3750	60
57P96-400	57PR96-400	474.00	400:1	0.20	11.200	3750	60

Add an "R" to the part number after "P" for the RoHS compliant version (i.e. 57PR96-050 is the RoHS compliant version of 57P96-050).

Notes: (1). Tested at 10 KHz, 0.1 VRMS.

To determine maximum operation parameters for unipolar current, use the following formulas:

1. Terminating resistor: $R_t = (N_s \times V_{ref}) / (N_p \times I_{ppk})$
2. Maximum flux density (Teslas): $B_{pk} = (V_{ref} \times D_{Cu_max}) / (N_s \times 1.488E-5 \times Freq)$
Recommended $B_{pk_max} = 0.200$ T [2000 G]