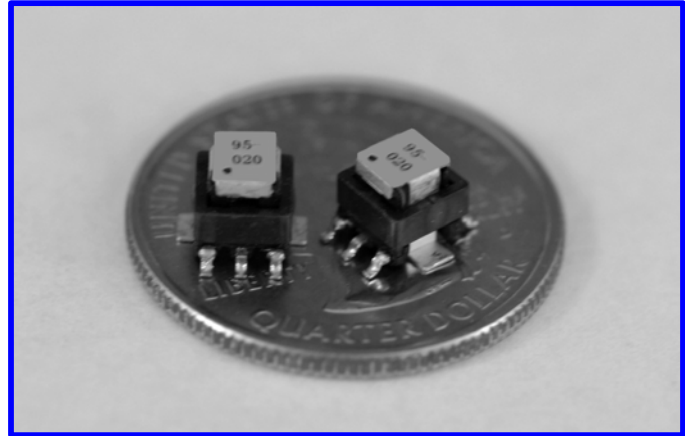


# TYPE 57P95

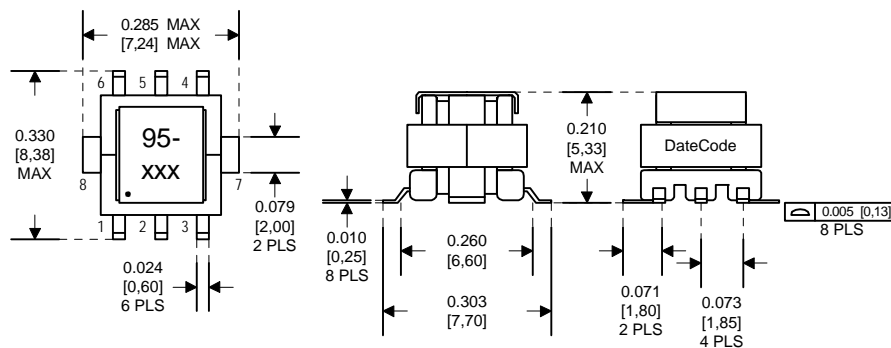
## Current Sense Transformers

### FEATURES

- Operating temperature from -40°C to 125°C.
- Manufactured to UL recognized 130°C insulation system.
- Materials meet flammability requirements for UL 94V-0.
- Frequency range from 50 KHz to 1 MHz.
- RoHS compliant version available.

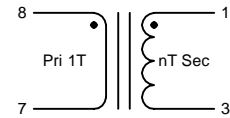


### DRAWING

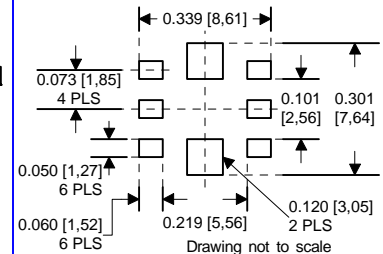


All dimensions given in inches [mm]. Tolerances unless otherwise specified: .XX±01 [.X±25]; .XXX±005 [.XX±13] Angular: ±1°

### SCHEMATIC



### SUGGESTED PCB LAYOUT



### ELECTRICAL CHARACTERISTICS @ 25°C

Part Number		Secondary Inductance <sup>(1)</sup>	Turns Ratio	Primary DCR	Secondary DCR	Hipot (Pri-Sec)	Rated Current (Primary)
		mH					
Classic	RoHS	MIN	Ns:Np ±1-2%	mOhm MAX	Ohm MAX	VRMS 60 Hz 2 SEC	A RMS @ 50°C Trise
57P95-020	57PR95-020	0.075	20:1	0.75	0.350	500	18
57P95-030	57PR95-030	0.160	30:1	0.75	0.500	500	18
57P95-040	57PR95-040	0.300	40:1	0.75	0.850	500	18
57P95-050	57PR95-050	0.480	50:1	0.75	1.300	500	18
57P95-060	57PR95-060	0.700	60:1	0.75	1.600	500	18
57P95-070	57PR95-070	0.980	70:1	0.75	3.200	500	18
57P95-100	57PR95-100	1.900	100:1	0.75	5.400	500	18
57P95-125	57PR95-125	3.000	125:1	0.75	6.700	500	18
57P95-150	57PR95-150	4.000	150:1	0.75	8.200	500	18

Add an "R" to the part number after "P" for the RoHS compliant version (i.e. 57PR95-020 is the RoHS compliant version of 57P95-020).

Notes: (1). Tested at 100 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):  $B_{pk} = (V_{ref} \times Du_{Cy\_max}) / (N_s \times 2.66E-6 \times Freq)$ . Recommended  $B_{pk\_max} = 0.200 T [2000 G]$