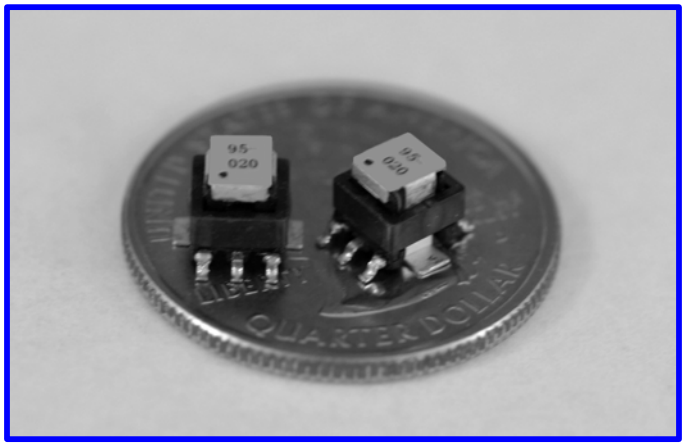
TYPE 57P95

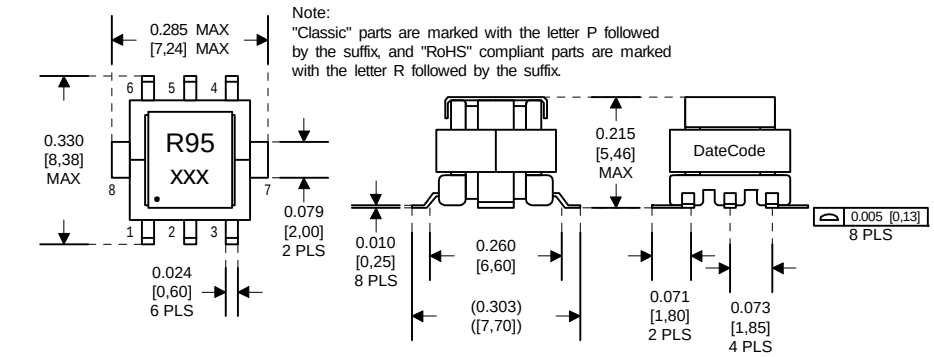
Current Sense Transformers

FEATURES

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

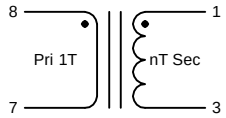


DRAWING

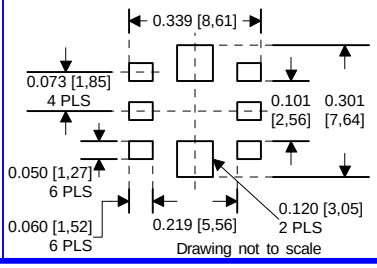


All dimensions given in inches [mm]. Tolerances unless otherwise specified: .XX±.01 [.X±.25]; .XXX±.005 [.XX±.13] Angular: ±1º

SCHEMATIC



SUGGESTED PCB LAYOUT



Drawing not to scale

ELECTRICAL CHARACTERISTICS @ 25ºC

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	MIN	±2%	MAX	MAX	60 Hz 2 SEC	@ 50ºC 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: Rt = (Ns x Vref) / (Np x Ippk)
2. Maximum flux density (Teslas): Bpk = (Vref x DuCy_max) / (Ns x 2.66E-6 x Freq). Recommended Bpk_max = 0.200 T [2000 G]