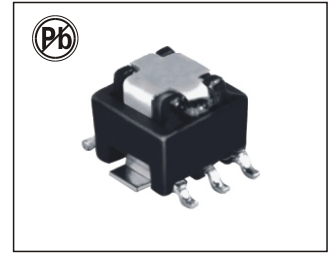


SMD CURRENT SENSER TRANSFORMERS

ACSTE50 Series

FEATURES:

- Working Frequency range:50KHz~1MHz
- Testing Frequency: 10 KHz 0.1Vrms
- Hipot:2000VAC,Primary to Secondary
- Maximum Sensing Current: 20A
- All seconday measurements are in pins 1-3
- Soldering menthods: Wave, Reflow

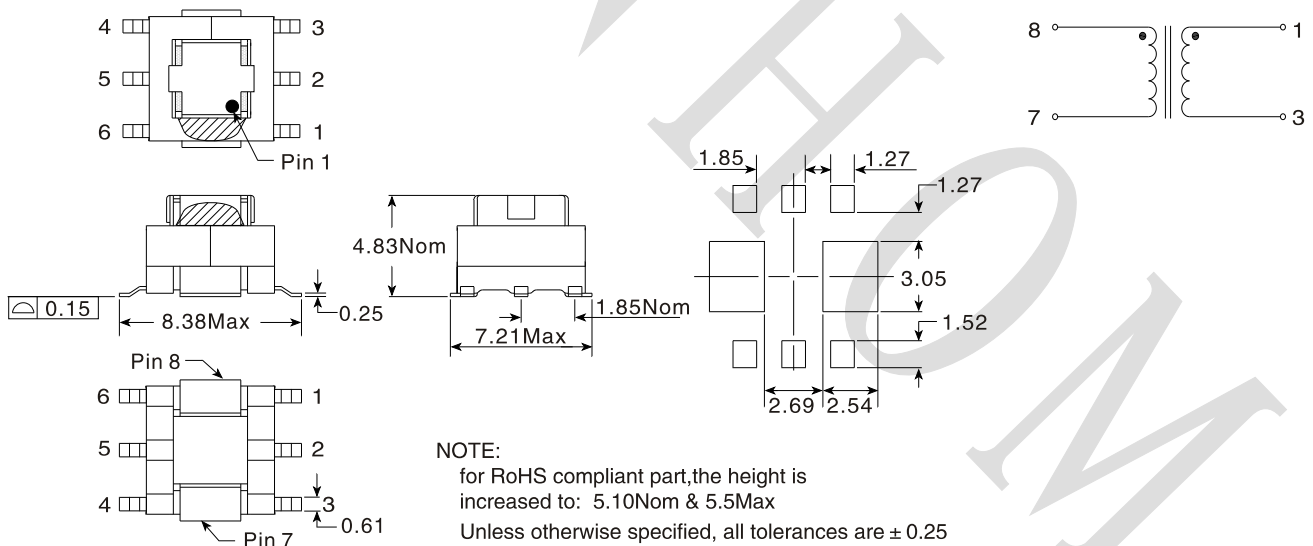


Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C

Part No.	Turns Ratio	Current ² Rating (A)	Secondary inductance (mH)Min	DCR(mΩ Max)		Hi-Pot (Vrms)
				Primary (8-7)	Secondary (1-3)	
ACSTE5020	1:20	20	0.08	0.75	550	500
ACSTE5030	1:30	20	0.18	0.75	870	500
ACSTE5040	1:40	20	0.32	0.75	1140	500
ACSTE5050	1:50	20	0.50	0.75	1500	500
ACSTE5060	1:60	20	0.72	0.75	2250	500
ACSTE5070	1:70	20	0.98	0.75	4750	500
ACSTE5100	1:100	20	2.00	0.75	5500	500
ACSTE5125	1:125	20	3.00	0.75	6500	500

MECHANICAL:

SCHEMATIC:



NOTES:

- 1.The temperature of component (ambient temperature plus temper-aturerise) must be within the specified operating temperature range.
- 2.The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow when both one turn windings connected in parallel.
- 3.To calculate value of terminating resistor (Rt) use the following formula: $R_t (\Omega) = V_{ref} * N / (I_{peak_primary})$
- 4.The peak flux density of the device must remain below 2000 Gauss. Tocalculate the peak flux density for uni-polar current use following formula: $B_{pk} = 37.59 * V_{ref} * (Duty_Cycle_Max) * 105 / (N * Freq_kHz)$ for bi-polar current applications divide Bpk (as calculated above) by 2