CURRENT SENSE TRANSFORMERS

ACST2019 SERIES

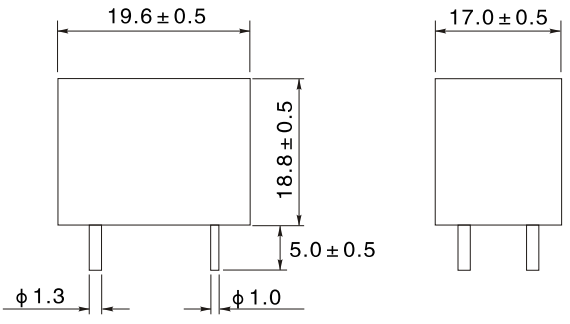
FEATURES:

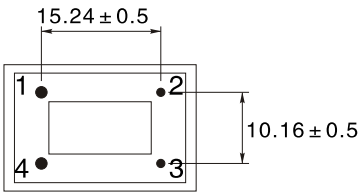
- 3750VDC insolation between winding to winding
- Frequency range: 10kHz to 1MHz
- Designed for use with switching power supplies
- This current sensing transformers are designed to
- meet UL/CSA/IEC 60950 Reinforced Insulation specification and provide 3 mm creepage/clearance between primary and secondary windings. Winding to winding
- Reinforced insulation per IEC 380
- Epoxy encapsulated construction
- Materials meet requirement of UL94V–0

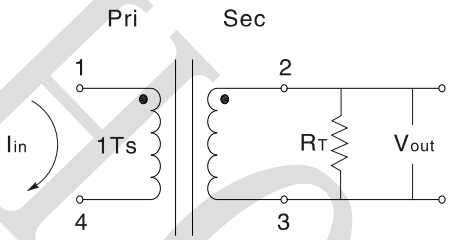
ELECTRICAL CHARACTERISTICS@25℃

Part Number	Turns ratio	Sec inductance 15.75KHz,1V (mH)Min.	Sec DCR (Ω)Max	IPK (A)	Terminating resistance RT (Ω)
ACST2019–500	1:50	5	0.7	35	50
ACST2019–101	1:100	20	1.4	37	100
ACST2019–201	1:200	80	4.5	38	200
ACST2019–301	1:300	180	11.0	37	300

PHYSICAL CHARACTERISTICS & WINDING







Notes

- Inductance is for the secondary, measured at 15.75 kHz, 1 Vrms.
- Volt–time product is for the secondary, based on 2000 Gauss.
- Terminating resistance (RT) value is based on 1 Volt output with 35 Amps flowing through the primary.Varying terminating resistance increases or decreases output Voltage/Ampere according to the following equation: $RT = V_{out} \times N_{sec} / I_{in}$.
- The maximum useable peak sense current (IPK) depends on temperature riseor core saturation, which should be evaluated for the operating conditions.
- Ambient temperature range:–40℃ to +85℃.
- Electrical specifications at 25℃.

Note:All specifications subject to change without notice.