

High Frequency Current Transformer

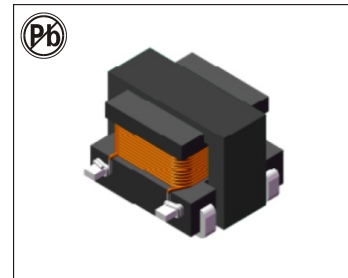
ACSTE4.2 SERIES

FEATURES:

- Very low DC resistance
- Different turns ratios
- Very small package
- 500Vrms, one minute isolation(hipot) between windings
- Sensed Current – primary rated for 7 Amps

APPLICATIONS:

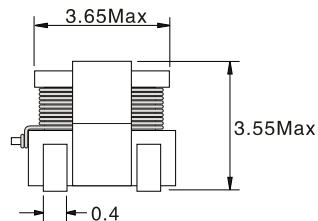
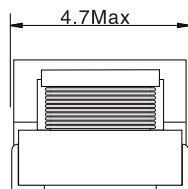
- Switching power supplies
- Feedback control
- Overload sensing
- Load drop/Shut down detection



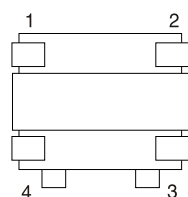
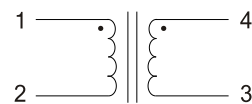
ELECTRICAL SPECIFICATIONS: @25°C

Part No.	Turns ratio	Ls (uH, Min) 100KHz, 0.1V	Rp (Ω, Max)	Rs (Ω, Max)	Sensed Current (A)
ACSTE4.2-200	1:20	33	0.003	0.35	7
ACSTE4.2-300	1:30	74	0.003	0.8	7
ACSTE4.2-400	1:40	132	0.003	1.6	7
ACSTE4.2-500	1:50	205	0.003	2.5	7
ACSTE4.2-600	1:60	295	0.003	3.6	7
ACSTE4.2-700	1:70	400	0.003	4.6	7
ACSTE4.2-101	1:100	820	0.003	9.5	7
ACSTE4.2-121	1:125	1280	0.003	13.0	7
ACSTE4.2-151	1:150	1800	0.003	21.0	7

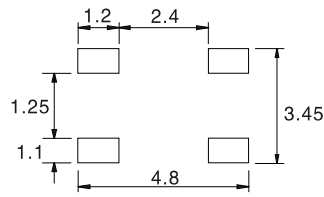
MECHANICAL: Unit:mm



Schematic



Bottom view



Recommended PCB layout

NOTES

- 1.Primary current of 7 A causes less than 35°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise
- 2.Operating temperature : -40°C to 125°C
- 3.Storage temperature Component: -40°C to +125°C
- 4.Tape and reel packaging: -40°C to +80°C
- 5.Moisture sensitivity level(MSL) 1 (Unlimited floor life at <30deg /85% relative humidity)
- 6.Inductance measured between secondary pins at 100kHz, 0.1 Vrms, 0 Adc
- 7.Frequency range: 50KHz to 1MHz
- 8.Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent
- 9.DCR measured on Chroma 16502 micro-ohmmeter or equivalent
- 10.PCB washing tested to MIL-STD-202 Method 215 plus an additional aqueous wash

Specifications subject to change without notice

SHINHOM ELECTRONICS ENTERPRISE CO.,LTD. No.100YanTa Northern Road Zip:710054 Tel:0086-29-87851838 Fax:0086-29-87851840

High Frequency Current Transformer

ACSTE4.6 SERIES

FEATURES:

- Very low DC resistance
- Different turns ratios
- Very small package
- 500Vrms,one minute isolation(hipot) between windings
- Sensed Current up to 20 Amps

APPLICATIONS:

- Switching power supplies
- Feedback control
- Overload sensing
- Load drop/Shut down detection

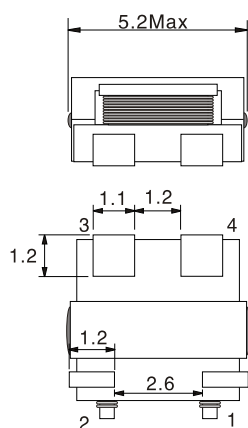


ELECTRICAL SPECIFICATIONS: @25°C

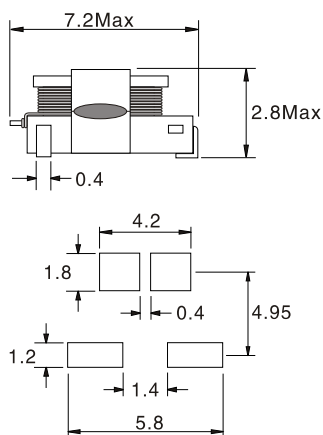
Part No.	Turns ratio	Ls (μ H, Min) 100KHz,0.1V	Rp (Ω ,Max)	Rs (Ω ,Max)	Sensed Current (A)
ACSTE4.6-200	1:20	53	0.0015	0.42	20
ACSTE4.6-500	1:50	333	0.0015	2.76	20
ACSTE4.6-700	1:70	652	0.0015	5.04	20
ACSTE4.6-101	1:100	1330	0.0015	10.68	20
ACSTE4.6-151	1:150	2993	0.0015	22.30	20

MECHANICAL:

Unit:mm

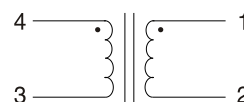


Bottom view



Recommended PCB layout

Schematic



NOTES

- 1.Primary current of 20 A causes less than 35°C temperature rise from 25°C ambient. Higher current causes a greater temperature rise
- 2.Operating temperature : -40°C to 125°C
- 3.Storage temperature Component: -40°C to +125°C
- 4.Tape and reel packaging: -40°C to +80°C
- 5.Moisture sensitivity level(MSL) 1 (Unlimited floor life at <30deg /85% relative humidity)
- 6.Inductance measured between secondary pins at 100kHz, 0.1 Vrms, 0 Adc
- 7.Frequency range: 50KHz to 1MHz
- 8.Inductance measured at 0Adc on HP 4284A LCR Meter or equivalent
- 9.DCR measured on Chroma 16502 micro-ohmmeter or equivalent
- 10.PCB washing tested to MIL-STD-202 Method 215 plus an additional aqueous wash

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