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## Triad Transformer Catalog

### SWITCHMODE/HIGH FREQUENCY - CURRENT SENSE TRANSFORMERS

#### Description:

Designed for switching power supply applications, TRIAD current sense transformers from Triad Magnetics are used to detect the current passing through a conductor. These transformers are very reliable and operate effectively over the frequency range of 20 kHz-200 kHz. They are constructed of UL rated 130°C materials. Both models are available with a center tap option.

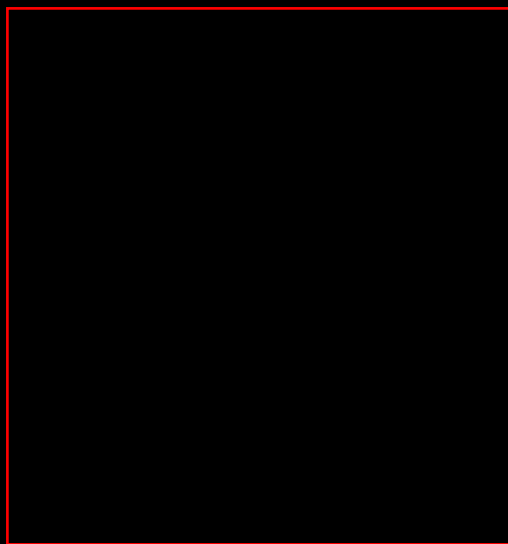


Figure A

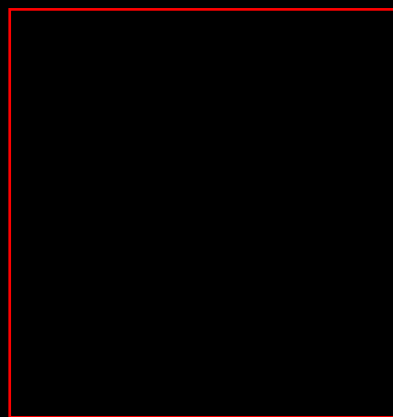


Figure B

### CURRENT SENSE TRANSFORMERS

Type No.	ET V <sub>μ</sub> SEC Ref 20 kHz	Turns Count	Min Ind. mH	DCR Max Ohms	Pri. Amps	Figure
CST206-1A	2000	100	14.0	.580	110.0 RMS	A
CST206-1T	2000	100 CT	14.0	.580	110.0 RMS	A

CST206-2A	4000	200	56.0	3.500	80.0 RMS	A
CST206-2T	4000	200 CT	56.0	3.500	80.0 RMS	A
CST206-3A	6000	300	130.0	12.400	70.0 RMS	A
CST206-3T	6000	300 CT	130.0	12.400	70.0 RMS	A
CST306-1A	500	20	3.5	.340	35.0 RMS	B
CST306-1T	500	50 CT	3.5	.340	35.0 RMS	B
CST306-2A	1000	100	14.0	1.550	25.0 RMS	B
CST306-2T	1000	100 CT	14.0	1.550	25.0 RMS	B
CST306-3A	2000	200	55.0	3.750	25.0 RMS	B
CST306-3T	2000	200 CT	55.0	3.750	25.0 RMS	B

CT = Center Tap

### Technical Notes:

1. Derate ET product by 32% for 50 kHz, 52% for 100 kHz and 50% for unidirectional operation.
2. Rated primary current renders approximately 40°C temperature rise.
3. CST206 models have maximum recommended terminating resistance of 1 ohm per turn.
4. Primary is inserted through hole in casing.
5. 3 pin or center tapped (CT) models are designated with a T suffix. Non-centered tapped versions do not have a center pin.
6. Arrow side of primary conductor has the same polarity as pin #1.



Figure A

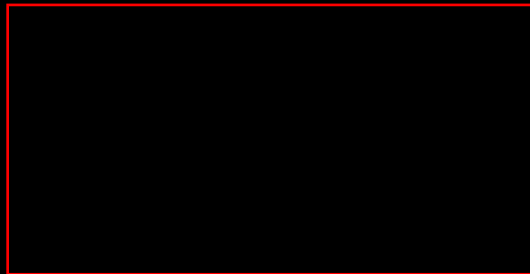
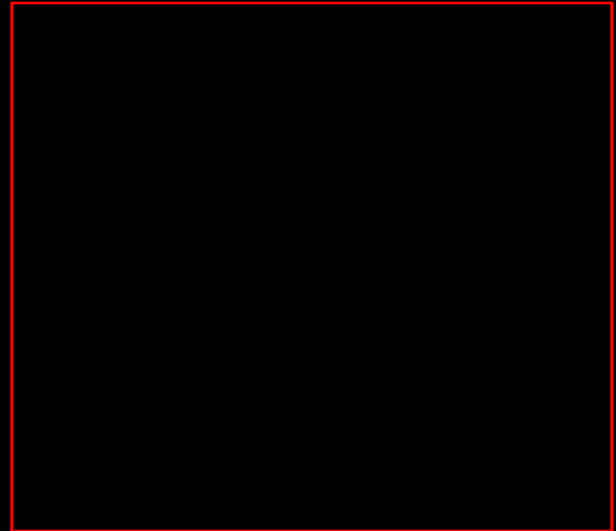


Figure B

## **LOW FREQUENCY CSE187L**

### **Description:**

Designed to monitor current in low frequency applications. This Triad Magnetics part may be used to monitor current from .1 to 30 amperes at frequencies from 50 Hz to 400 Hz.



### **Technical Notes:**

1. Turns ration: Primary to sense 1:500.
2. Suggested burden resistor: 60 ohms.
3. Typical output: 110 mV/Amp.
4. Primary DCR: 250 $\mu$ Ohms max.
5. Sense DCR: 21 ohms max.
6. Sonstructed with UL recognized materials )Class B, 130° C).
7. Hi-pot: 500 volts.



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