

SWITCHMODE/HIGH FREQUENCY

Current Sense Transformers

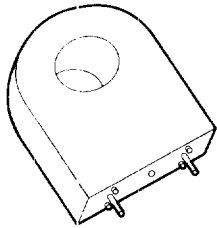


Figure A

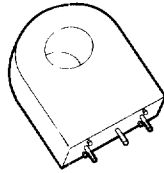


Figure B

CT = Center Tap

A CST206-KIT is available which includes each one of the components in section A.

A CST306-KIT is available which includes each one of the components in section B.

DESCRIPTION: Designed for switching power supply applications, TRIAD current sense transformers from MagneTek 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.

Section/ Figure	Type No.	ET $V_{\mu SEC}$ Ref 20 kHz	Turns Count	Min. Res. Ω	DCR Max. Ohms	PK. Range
A	CST206-1A	2000	100	14.0	580	110.0 RMS
	CST206-1T	2000	100 CT	14.0	580	110.0 RMS
	CST206-2A	4000	200	56.0	3.500	80.0 RMS
	CST206-2T	4000	200 CT	56.0	3.500	80.0 RMS
	CST206-3A	6000	300	130.0	12.400	70.0 RMS
	CST206-3T	6000	300 CT	130.0	12.400	70.0 RMS
B	CST306-1A	500	50	3.5	340	35.0 RMS
	CST306-1T	500	50 CT	3.5	340	35.0 RMS
	CST306-2A	1000	100	14.0	1.550	25.0 RMS
	CST306-2T	1000	100 CT	14.0	1.550	25.0 RMS
	CST306-3A	2000	200	55.0	3.750	25.0 RMS
	CST306-3T	2000	200 CT	55.0	3.750	25.0 RMS

TECHNICAL NOTES:

- Derate ET product by 32% for 50 kHz, 52% for 100 kHz and 54% for unidirectional operation.
- Rated primary current renders approximately 40°C temperature rise.
- CST206 models have maximum recommended terminating resistance of 1 ohm per turn.
- Primary is inserted through hole in casing.
- 3 pin or center tapped (CT) models are designated with a T suffix.

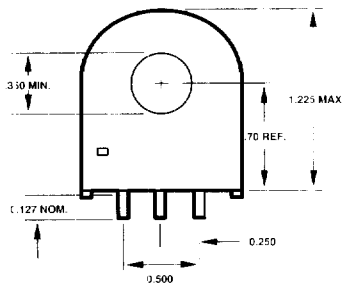


Figure A

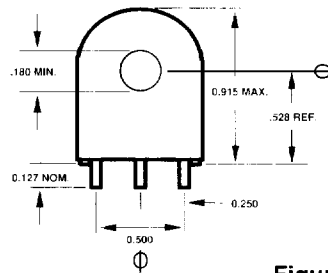
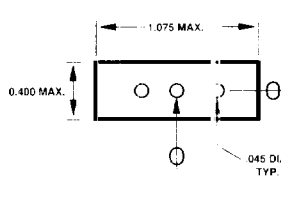
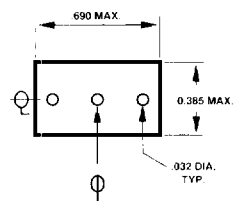
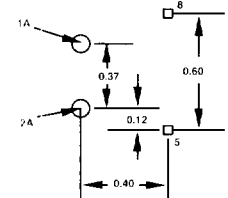
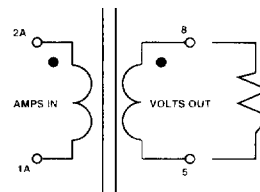
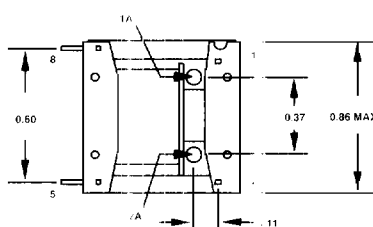
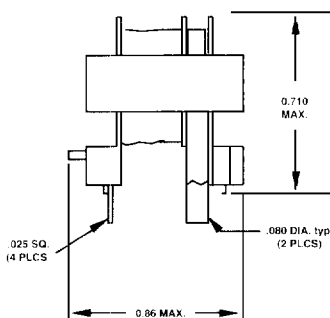
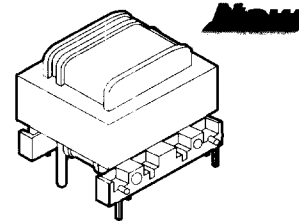


Figure B



Low Frequency CSE187-L

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



TECHNICAL NOTES

- Turns ratio: Primary to sense 1:500.
- Suggested burden resistor: 60 ohms.
- Typical output: 110 mV/Amp.
- Primary DCR: 250 μ Ohms max.
- Sense DCR: 21 ohms max.
- Constructed with UL recognized materials (Class B, 130°C).