

SMT CURRENT TRANSFORMER

FWCT-E5.0 SERIES

Features

- ◆ Low Profile
- ◆ Full Selection of Turns Rstios
- ◆ Primary Rated for 10A
- ◆ Frequency Range up to 1MHz
- ◆ Suitable for PickAnd Place Applications
- ◆ Withstands Solder Reflow

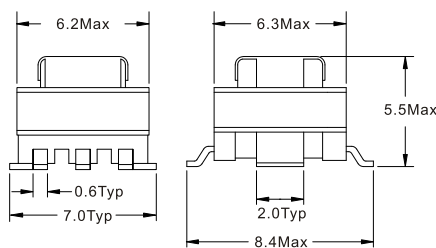
Applications

- ◆ DC/DC Converters
- ◆ AC/DC Converters

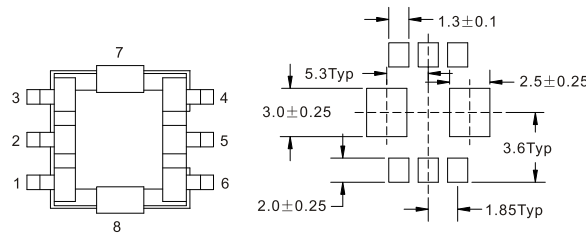
Packaging

- ◆ Reel Diameter: 13"
- ◆ Reel Width: 16mm
- ◆ Pieces Per Reel: 1000

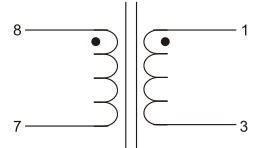
Mechanical



Recommend PCB Layout



Schematic



Electrical Specifications

Part Number	Turns Ratio	L_s^1 (μ H, min.)	R_p (m Ω , max.)	R_s (Ω , max.)	Terminating ⁵ Resistor (Ω)	Hi-Pot
FWCT-E5.0-01	1:20	102	6	0.40	3.33	500
FWCT-E5.0-02	1:30	230	6	0.60	5.00	500
FWCT-E5.0-03	1:40	408	6	0.80	6.67	500
FWCT-E5.0-04	1:50	638	6	1.50	8.33	500
FWCT-E5.0-05	1:60	920	6	1.70	10.00	500
FWCT-E5.0-06	1:70	1250	6	3.10	11.67	500
FWCT-E5.0-07	1:100	1680	6	5.50	16.67	500
FWCT-E5.0-08	1:125	2620	6	6.50	20.83	500
FWCT-E5.0-09	1:200	6700	6	35.00	33.33	500

1. Tested @10kHz, 0.1Vrms.

2. Electrical specifications at 25°C.

3. Operating temperature range: -40°C to +130°C.

4. Meets UL 94V-0.

5. Terminating resistor for 1 volt out with 6Amps AC flowing through the primary.