



# SWITCHING TRANSFORMERS

## YCETD SERIES

### ELECTRICAL CHARACTERISTICS

#### FEATURES:

- Possessing of high permeability
- High saturation flux density
- Low loss, at 100°C the power loss goes bottom

#### COMMON APPLICATIONS:

- Drive transformers
- Main transformers
- Smoothing chokes
- General purpose use

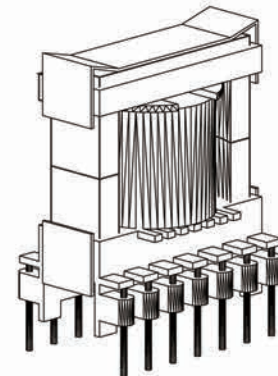
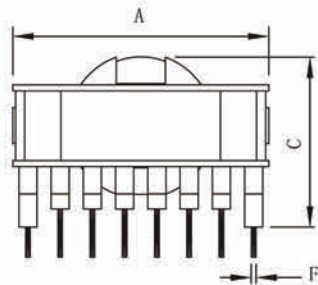
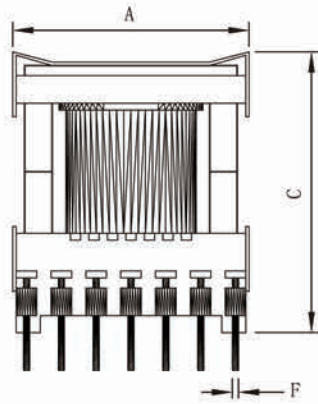
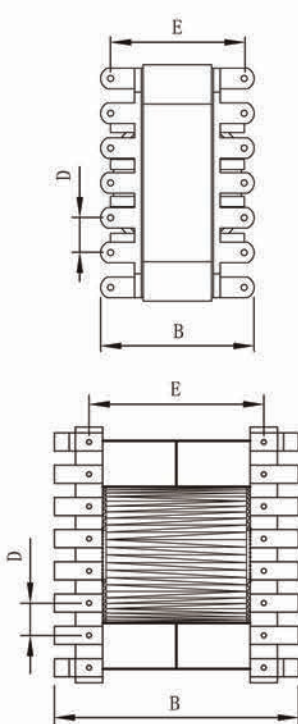
#### OPTIONS:

- Bulk packaging is standard
- Custom design available

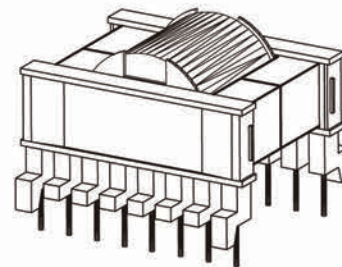
Part No.	Type	No. of Terminal pins	Dimensions (mm)						Max. output (VA)
			Max	Max	Max	±0.3	±0.5	±0.1	
			A	B	C	D	E	F	
YCETD 24-A	V	12	36.5	25.0	38.0	5.08	17.8	1.1	110
YCETD 29-A	H	14	36.0	36.0	25.5	5.0	25.6	0.8	170
YCETD 29-B	H	13	37.0	37.0	27.0	5.0	25.8	0.8	170
YCETD 29-C	V	12	42.0	24.5	43.0	5.08	20.32	0.8	170
YCETD 34-A	V	12	34.5	30.0	37.0	5.0	25.5	1.0	270
YCETD 34-B	H	14	41.0	41.0	27.0	5.0	25.5	2.0	270
YCETD 34-C	V	14	39.0	28.0	45.0	5.0	22.9	1.0	270
YCETD 39-A	V	16	46.0	30.5	49.6	5.0	25.1	1.0	380
YCETD 39-B	H	16	45.0	45.0	36.0	5.0	30.2	1.0	380
YCETD 44-A	H	18	50.0	51.0	40.0	5.0	35.8	1.0	520
YCETD 44-B	V	18	46.0	33.0	51.0	5.0	27.5	1.0	520
YCETD 49-A	V	22	55.0	37.0	55.0	5.0	27.5	1.0	680
YCETD 49-B	H	20	56.0	55.0	41.0	5.0	40.4	1.0	680
YCETD 54-A	H	22	61.0	60.0	47.0	5.0	44.8	1.0	750
YCETD 59-A	H	24	68.0	68.0	52.5	5.0	51.0	1.0	900

Note: The output power is only for forward model and the frequency at 100kHz

### PHYSICAL CHARACTERISTICS



Type V



Type H



# Continuous/Discontinuous Flyback Multiple Output Transformer

- Frequency Range: 80 kHz to 250 kHz
- Isolation (Secondary to Primary): 5100 VDC
- Height: 1.36 Inch MAX
- Class F Insulation
- Dual Primary Interleave for lower Leakage Inductance

**Notes:**

1. ET max 700V-usec. Typical frequency 200 kHz. MSL 1.
2. Part is designed for temperature rise: 45° C MAX.
3. Storage temperature: -55° C to 155° C.
4. Primary to outputs 1, 2, 3 and 4; all windings to core; Output 1 to output 2, 3 and 4;
5. Output 2 to output 3 and 4; Output 3 to output 4.

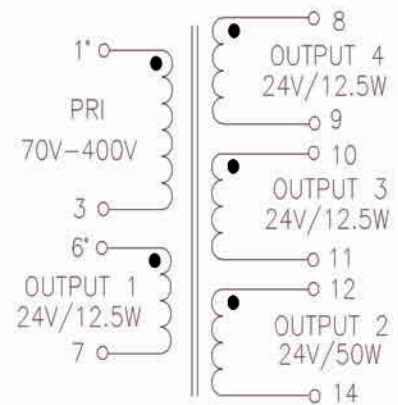
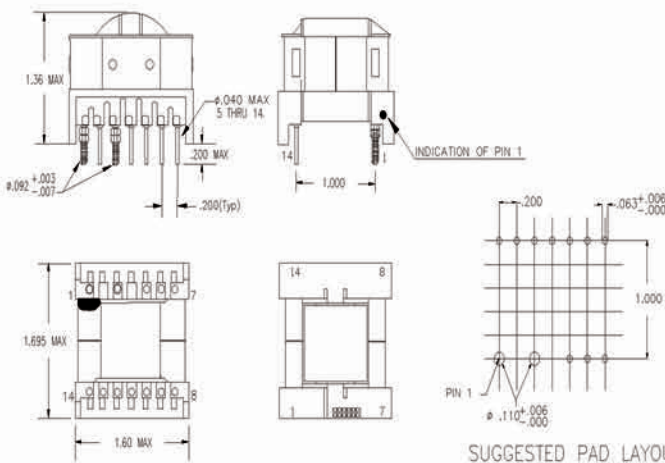
Electrical Specifications @ 25°C - Operating Temperature -40°C to +155°C

Part Number	Primary Inductance (uH) (1-3) (-40°C to +125°C)	Primary Leakage Inductance (uH MAX) (1-3)	Turns Ratio ( Test on Ungapped core)							DCR (mΩ MAX)			Hi-Pot (VDC 6S)	
			(1-3) (6-7)	(1-3) (8-9)	(1-3) (10-11)	(1-3) (12-14)	(6-7) (8-9)	(6-7) (10-11)	(6-7) (12-14)	(1-3)	(6-7) (8-9) (10-11)	(12-14)	See Note 4	See Note 5
YCETD34-1	167-203	3.00	7.5	7.5	7.5	7.5	1.0	1.0	1.0	55.0	25.0	3.6	5100.0	2550.0

## Mechanical

## Schematic

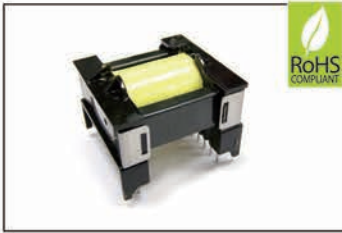
### YCETD34-1



67W MAX COMBINED TOTAL OUTPUT

Weight ..... :87.0 grams  
 Tray ..... : 15Pcs/tray  
 Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

Between the primary winding and output windings, between the primary windings and core, and between the output 1 winding and output 2 thru 4 windings, this part is designed to comply with spacing (creepage and clearance) and insulation requirements for reinforced insulation up to a working voltage of 400VRMS per IEC60664-1. The part is intended for equipment energized from low voltage mains with rated impulse voltage up to 4000V. Clearances are adjusted for altitude up to 3000 meters. Parts are 100% HIPOT tested in production. All insulating materials meet or exceed flammability classification on UL94V-0.



# Continuous/Discontinuous Flyback Multiple Output Transformer

- Frequency Range: 80 kHz to 250 kHz
- Isolation (Secondary to Primary): 2550 VDC
- Height: 1.36 Inch MAX
- Class F Insulation
- Dual Primary Interleave for lower Leakage Inductance

**Notes:**

1. ET max 117V-usec. Typical frequency 200 kHz. MSL 1.
2. Part is designed for temperature rise: 45° C MAX.
3. Storage temperature: -55° C to 155° C.

Electrical Specifications @ 25°C - Operating Temperature -40°C to +155°C

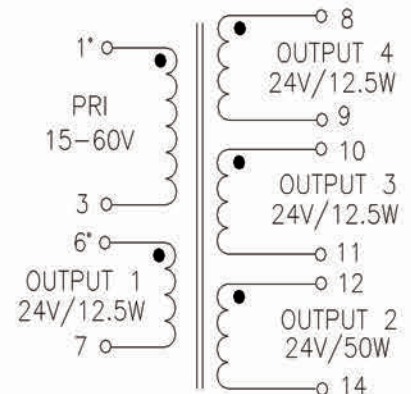
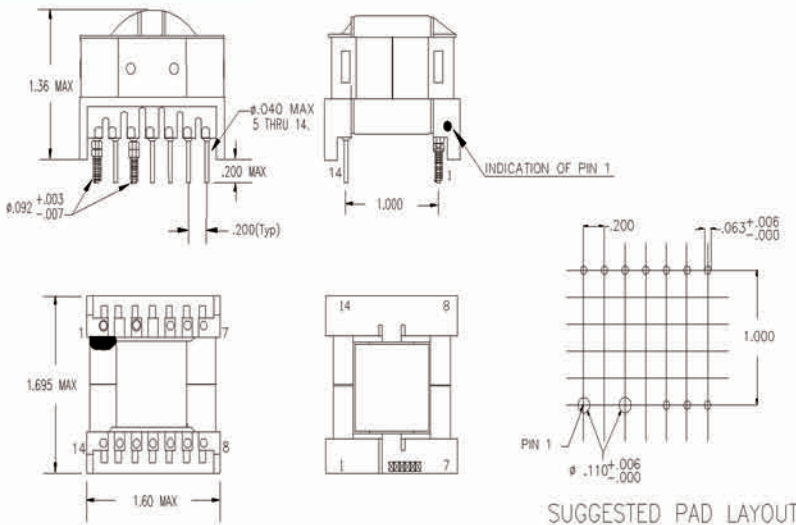
Part Number	Primary Inductance (uH)	Primary Leakage Inductance (nH MAX)	Turns Ratio ( Test on Ungapped core)						DCR (mΩ MAX)			Hi-Pot (VDC 6S)		
	(1-3) (-40°C to +125°C)	(1-3)	(1-3) (6-7)	(1-3) (8-9)	(1-3) (10-11)	(1-3) (12-14)	(6-7) (8-9)	(6-7) (10-11)	(6-7) (12-14)	(1-3)	(6-7) (8-9) (10-11)	(12-14)	All windings To core; Pri To Outputs;	Between any two outputs
YCETD34-2	4.64-5.64	200.00	1.25	1.25	1.25	1.25	1.0	1.0	1.0	2.6	25.0	2.6	2550.0	2550.0

Notes: 1. ET max 117V-usec. Typical frequency 200 kHz. MSL 1. 2. Part is designed for temperature rise: 45°C MAX. 3. Storage temperature: -55°C to 155°C.

**Mechanical**

**Schematic**

**YCETD34-2**



67W MAX COMBINED TOTAL OUTPUT

- Weight ..... .87.0 grams
- Tray ..... 15Pcs/tray
- Dimensions:  $\frac{\text{Inches}}{\text{mm}}$
- Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

Between all windings and between all windings and core, this part is designed to comply with spacing (creepage and clearance) and insulation requirements for reinforced insulation up to a working voltage of 160VRMS per IEC60664-1. The part is intended for equipment energized from low voltage mains with rated impulse voltage up to 2500V. Clearances are adjusted for altitude up to 3000 meters. Parts are 100% HIPOT tested in production. All insulating materials meet or exceed flammability classification UL94V-0.