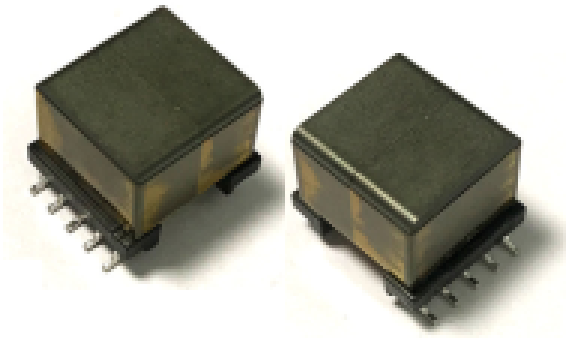
EP13 SERIES

Flyback Transformers



- Flyback transformers
- Hi-pot:1500 Vrms, 1 minute between pri. and sec.
- Terminations: RoHS tin-silver-copper over tin over nickel over phos bronze.
- Ambient temperature: –40°C to +85°C
- Max Part Temperature: +125°C (ambient + temperature rise)
- Storage temperature: Component: –40°C to +125°C
  Tape and reel packaging: –40°C to +80°C
- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Part number	Inductance at 0 A ±10% (µH)	DCR max (Ohms) pri	DCR max (Ohms) sec	Leakage inductance max (µH)	Turns ratio pri : sec	Isolation (Vrms)	Power (W)	Output
8 – 28 V input								
YETEP13-20001T	4.0	0.0156	0.0144	0.15	1: 0.70	1500	12	5 V, 2.4A
YETEP13-20002T	4.0	0.0156	0.0598	0.12	1:1.60	1500	12	12 V, 1A
YETEP13-20003T	4.0	0.0156	0.1900	0.12	1: 3.14	1500	12	24 V, 0.5A
18 – 60 V input								
YETEP13-20004T	20.0	0.0360	0.0120	0.40	1:0.31	1500	12	5V, 2.40A
YETEP13-20005T	20.0	0.0380	0.0540	0.28	1:0.71	1500	12	12V, 1.0A
YETEP13-20006T	20.0	0.0360	0.1950	0.28	1:1.39	1500	12	24V, 0.50A

1. Packaging: T = 13″ machine-ready reel. EIA-481 embossed plastic tape.
   B = In bulk or Less than full reel. In tape, but not machine ready.
   To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance is for the primary, measured at 150 kHz, 0.1 Vrms, 0 Adc.

3. DC current that causes the primary inductance drop 30% from its value without current.

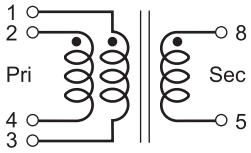
4. Leakage Inductance is for the primary, measured with secondary windings shorted together.

5. 1500 Vrms, one minute isolation (hipot) between windings.

6. Electrical specifications at 25°C.

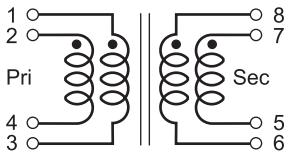
Schematics

YETEP13-20001/2/3T



*Connect pin 1 to 2 and pin 3 to 4 on the PC board

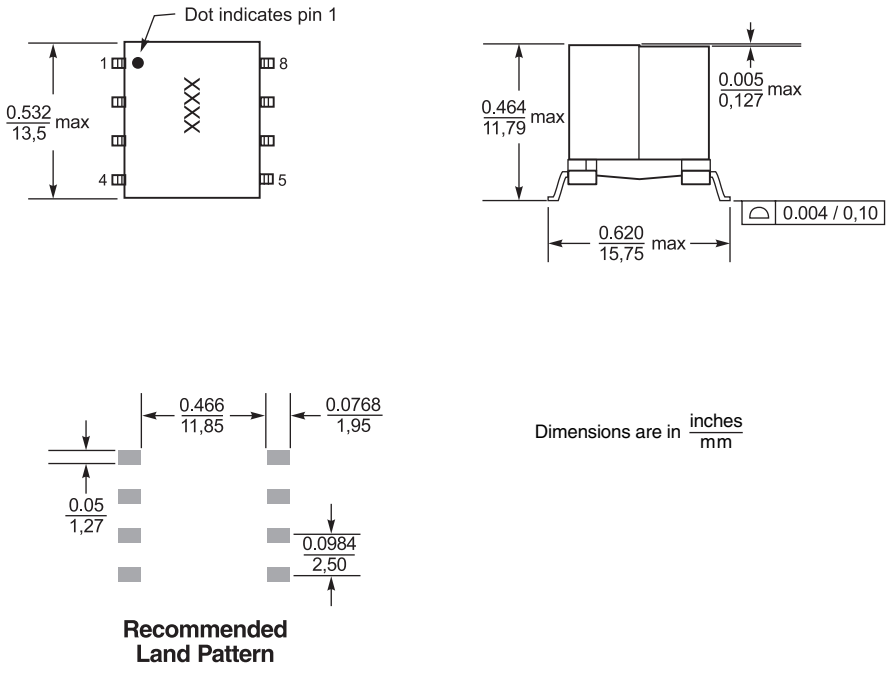
YETEP13-20004/5/6T



*Connect pin 1 to 2, 3 to 4, 5 to 6, and pin 7 to 8 on the PC board

Flyback Transformers

Dimensions



Packaging 200/13″ reel Plastic tape: 32 mm wide, 0.50 mm thick, 24 mm pocket spacing, 12 mm pocket depth