



Flyback Transformers

These low-profile transformers feature 1500 Vrms, one minute winding to winding isolation and 750 Vrms winding to core isolation. They are designed to operate with an input range of 3 – 24 V and to charge a capacitor to 300 V.

They are shown on the Linear Technology application note for use in a 300 V, 3 A charging circuit; a 300 V, 6 A charging circuit; and a 300 V, 9 A charging circuit.

Core material Ferrite

Terminations RoHS compliant tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight DA2032: 5.9 g; DA2033: 8.2 g; DA2034: 14.1g

Ambient temperature -40°C to +125°C

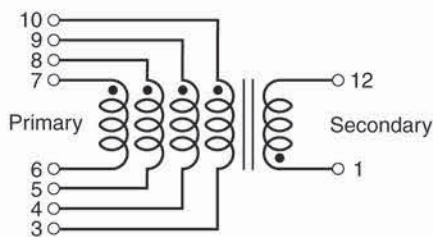
Storage temperature Component: -40°C to +125°C.

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

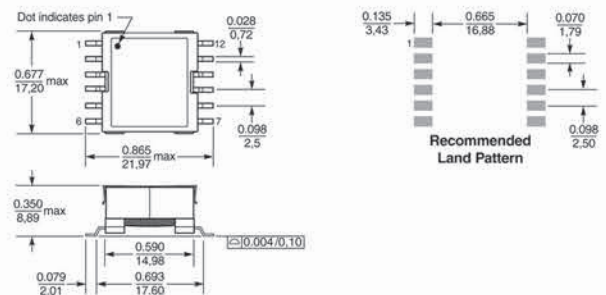
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Part number ¹	Inductance at 0 A ² ±10% (μH)	Inductance at I _{pk} ³ min (μH)	DCR max (Ohms) pri ⁴ sec	Leakage inductance ⁵ max (μH)	I _{pk} ³ (A)	Interwinding capacitance ⁶ (pF)	Turns ratio pri : sec
YCEFD15-2032	10.0	9.0	0.013 1.60	0.150	3.0	67	1 : 10
YCEFD15-2033	10.0	9.0	0.015 1.10	0.144	5.0	76	1 : 10
YCEFD15-2034	10.0	9.0	0.018 1.75	0.250	10.0	128	1 : 10

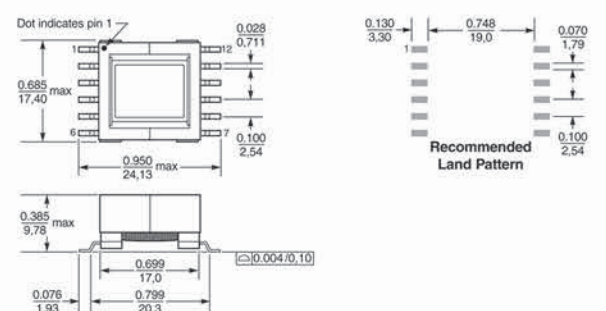


Primary windings to be connected in parallel on PC board

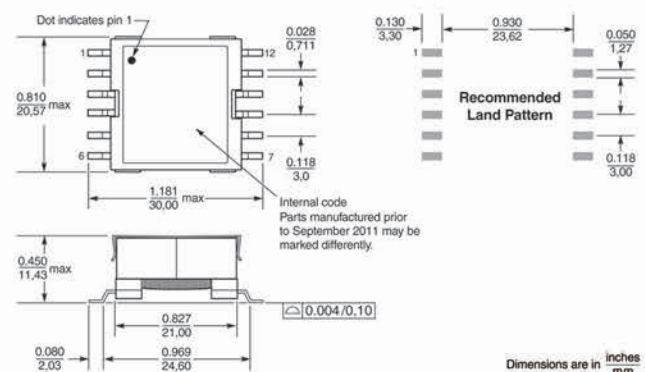
YCEFD2032-AL



YCEFD2033-AL



YCEFD2034-AL



Dimensions are in inches mm

1. Inductance is for the primary, measured at 100 kHz, 0.1 Vrms, 0 Adc.
2. Peak primary current drawn at minimum input voltage.
3. DCR is with the primary windings connected in parallel.
4. Leakage inductance is with the primary windings connected in parallel and with the secondary winding shorted.
5. Capacitance measured at 100 kHz, 0.1 Vrms from pin 3 to pin 1 with all other pins shorted.
6. Electrical specifications at 25°C.