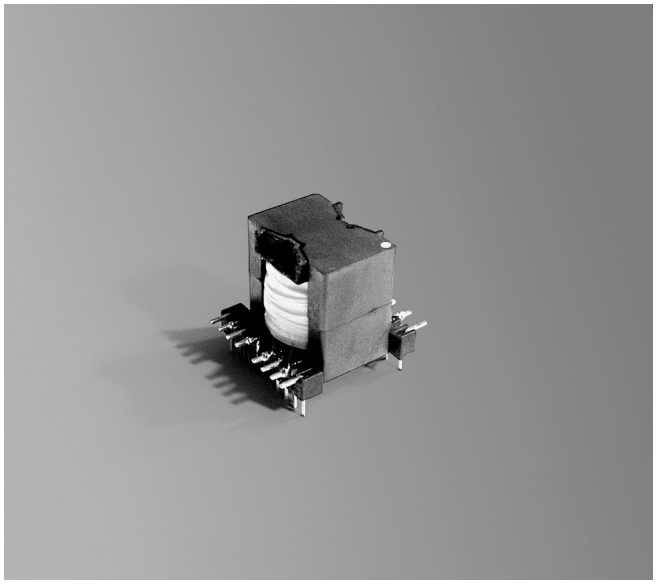
Flyback Transformer

For ON Semiconductor NCP1351 Controller



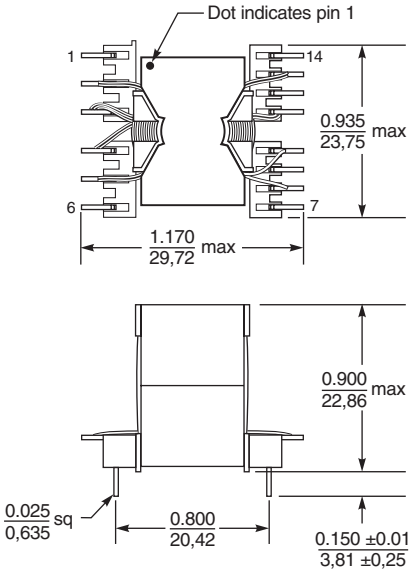
- Dual-output flyback transformer for ON Semiconductor's NCP1351 Variable Off Time PWM Controller.
- 32 V, 1.0 A and 16 V, 0.75 A Outputs. Output of the auxiliary winding is 16 V.
- Operates in discontinuous mode with a universal input
- 3000 Vrms, one minute isolation Pri and Aux to Sec1 and Sec2.
- 500 Vrms, one minute isolation Pri to Aux and between Sec1 and Sec2

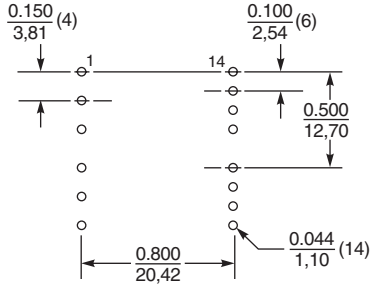
Core material Ferrite
Terminations RoHS tin-silver over tin over phos bronze. Other terminations available at additional cost.
Weight 23.5 g
Ambient temperature –40°C to +85°C
Storage temperature Component: –40°C to +85°C. Tray packaging: –40°C to +80°C
Resistance to soldering heat Max three 40 second 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)
Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging 64 parts per tray
PCB washing Only pure water or alcohol recommended

Part number	L at 0 A[1] ±10% (µH)	L at Ipk[2] min (µH)	DCR max (Ohms) pri	sec1	sec2	aux	Leakage L[3] max (µH)	Turns ratio pri : sec1 : sec2 : aux	Ipk[2] (A)
GA0007-AL	270	243	0.25	0.027	0.045	0.26	8.16	5 : 1 : 1 : 1	3.0

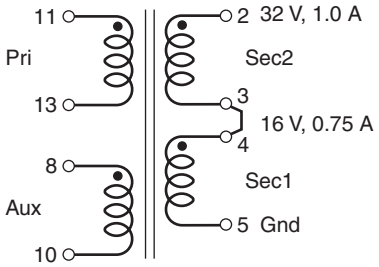
1. Inductance is for the primary, measured at 45 kHz, 0.8 Vrms, 0 Adc.
2. Ipk is the peak current drawn at minimum input voltage.
3. Leakage inductance measured on the primary winding with all secondary pins shorted.
4. Ambient operating temperature range –40°C to +85°C.
5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.





Recommended Board Layout



Secondary windings to be connected in series on the PC board.

Dimensions are in inches / mm

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