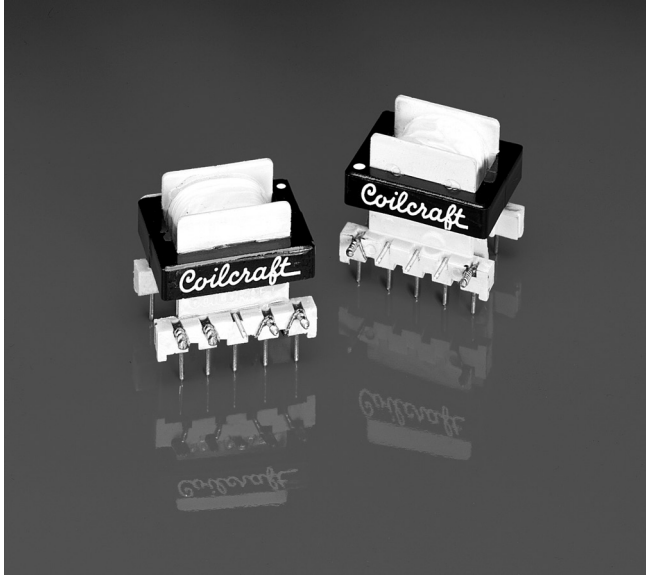




# Flyback Transformer

For ON Semiconductor  
NCP1072DIPGEVB



- Designed specifically for use with ON Semiconductor's 6W SMPS Evaluation board for NCP1072 (NCP1072DIPGEVB)
- 12 V, 0.5 A output; 85 – 265 Vac universal input
- Operates in continuous conduction mode at 30 kHz
- 2000 Vrms, one minute isolation (hipot) pri to sec; 500 Vrms pri to aux

**Core material** Ferrite

**Terminations** ROHS compliant tin-silver over matte tin over copper

**Weight** 16.5 g

**Ambient temperature** –40°C to +85°C

**Maximum part temperature** +125°C (ambient + temp rise)

**Storage temperature** Component: –40°C to +85°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)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

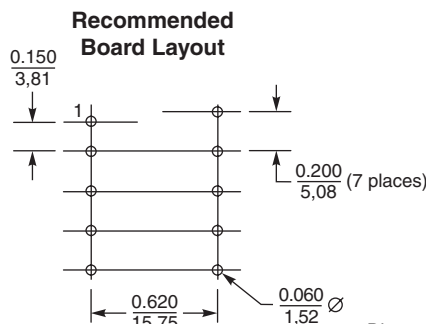
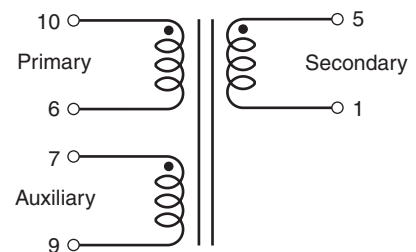
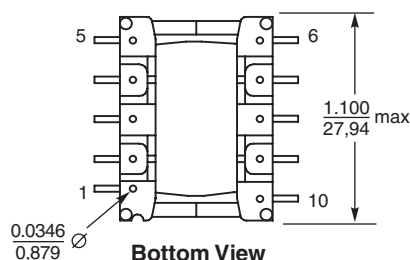
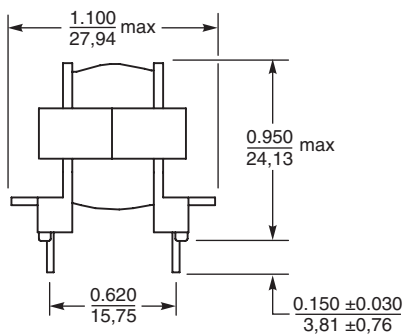
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**Packaging** 64 parts per tray

**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf.

Part number	Inductance at 0 A <sup>1</sup> ±10% (mH)	DCR max (Ohms)			Leakage inductance <sup>2</sup> max (µH)	Turns ratio		Output
		pri	sec	aux		pri : sec	pri : aux	
MA5597-AL	3.4	2.22	0.047	0.376	58.32	1 : 0.125	1 : 0.133	12V, 0.5A (sec) 12.85V, 0.02A (aux)

1. Inductance is for the primary, measured at 10 kHz, 0.1 Vrms, 0 Adc
2. Leakage inductance tested at 100 kHz, 0.1 Vrms is for the primary winding with the secondary winding shorted
3. Electrical specifications at 25°C.



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$



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