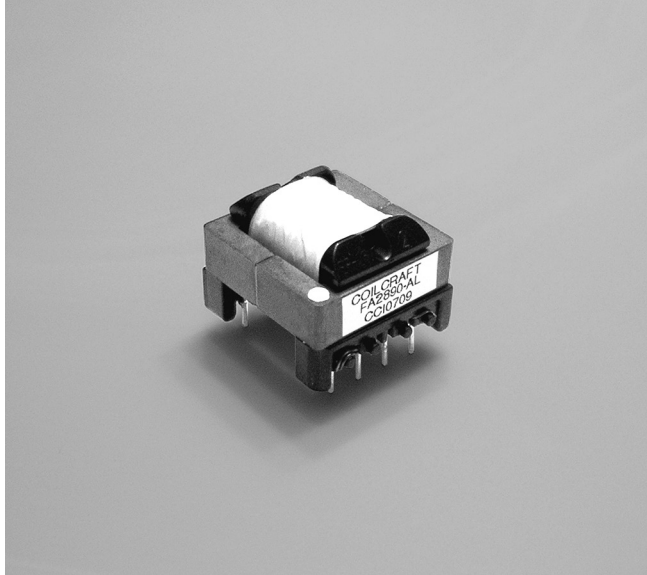




# PFC Boost Inductor

For ON Semiconductor  
NCP1606 PFC Controller



- Designed to operate in 100 Watt applications.
- Referenced as L<sub>BOOST</sub> in application note AND8282/D.
- Auxiliary winding provides zero current detection (ZCD) information and can also supply power to the NCP1606.
- 1000 Vrms winding to winding and winding to core isolation

**Core material** Ferrite

**Terminations** RoHS compliant tin-silver over tin over copper over copper-steel

**Weight** 27.2 g

**Ambient temperature** -40°C to +85°C with I<sub>rms</sub> current, +85°C to +125°C with derated current

**Storage temperature** Component: -40°C to +85°C.  
Tray packaging: -40°C to +80°C

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

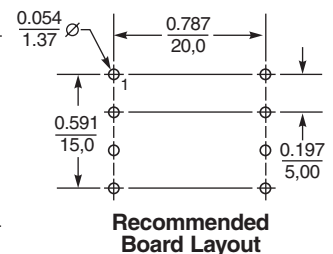
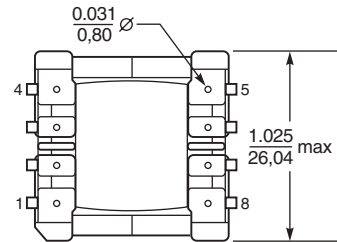
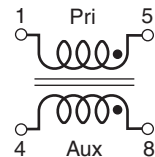
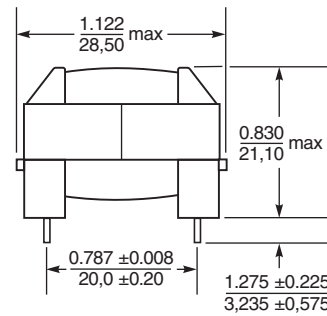
**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**  
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**Packaging** 36 parts per tray

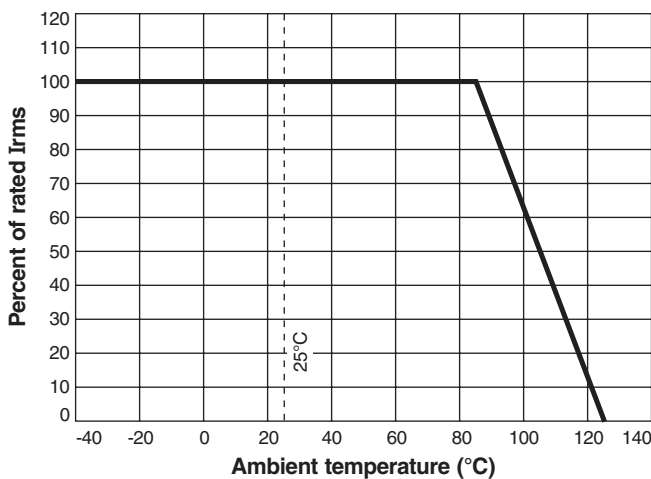
**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf.

Part number	Inductance <sup>1</sup> ±15% (µH)	Inductance at I <sub>pk</sub> min (µH)	I <sub>pk</sub> (A)	DCR max (Ohms) <sup>2</sup>		Leakage inductance <sup>3</sup> max (µH)	Turns ratio pri : aux	I <sub>rms</sub> <sup>4</sup> (A)
				pri	aux			
FA2890-AL	400.0	340.0	3.7	0.27	0.345	50.0	10 : 1	2.2

1. Inductance measured at 100 kHz, 0.1 V, 0 Adc using an Agilent/ HP 4284A impedance analyzer or equivalent.
2. DCR measured on Cambridge Technology micro-ohmmeter.
3. Leakage inductance is for the primary and measured with pins 4 and 8 shorted.
4. Current that causes a 40°C temperature rise from 25°C ambient.
5. Electrical specifications at 25°C.



## Irms Derating



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