

PFC Boost Inductor For ON Semiconductor NCP1606 PFC Controller



- · Designed to operate in 100 Watt applications.
- Referenced as L_{BOOST} 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 Irms 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.

	Inductance Inductance ¹ at Ipk Ipk			DCR max (Ohms) ²		Leakage inductance ³	Turns ratio	Irms ⁴
Part number	±15% (μH)	min (µH)	(A)	pri	aux	max (µH)	pri : aux	(A)
FA2890-AL	400.0	340.0	3.7	0.27	0.345	50.0	10:1	2.2

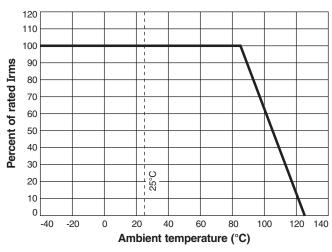
1. Inductance measured at 100 kHz, 0.1 V, 0 Adc using an Agilent/ HP 4284A impedance analyzer or equivalent.

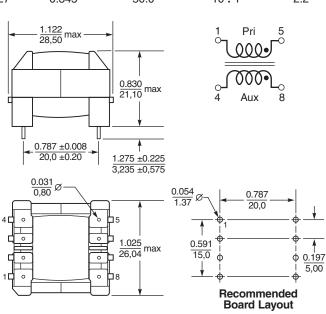
2. DCR measured on Cambridge Technology micro-ohmmeter.

- 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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