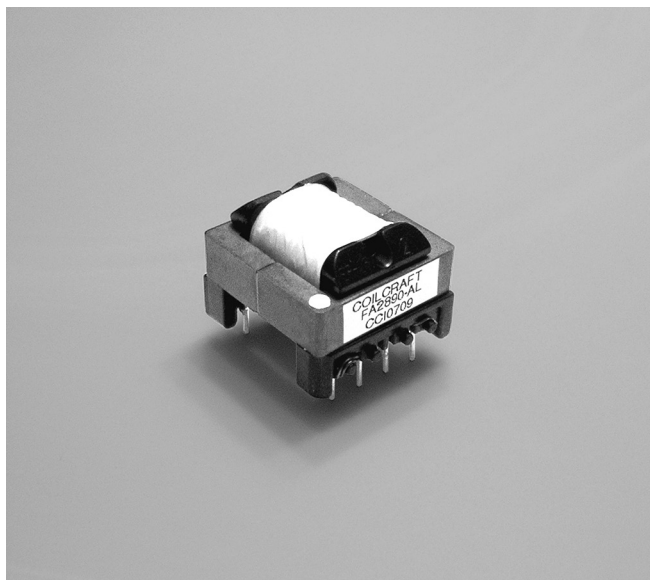




PFC Boost Inductor

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 $+85^{\circ}\text{C}$ with Irms current, $+85^{\circ}\text{C}$ to $+125^{\circ}\text{C}$ with derated current

Storage temperature Component: -40°C to $+85^{\circ}\text{C}$.
Tray packaging: -40°C to $+80^{\circ}\text{C}$

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 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 ¹ $\pm 15\%$ (μH)	Inductance at I_{pk} min (μH)	I_{pk} (A)	DCR max (Ohms) ²		Leakage inductance ³ max (μH)	Turns ratio pri : aux	Irms ⁴ (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

