

**NEW!**

SMT 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.
- 500 Vrms winding to winding and winding to core isolation

Core material Ferrite

Terminations RoHS compliant tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 27 g

Ambient temperature -40°C to +85°C with I_{rms} current, +85°C to +125°C with derated current

Storage temperature Component: -40°C to +125°C.
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)

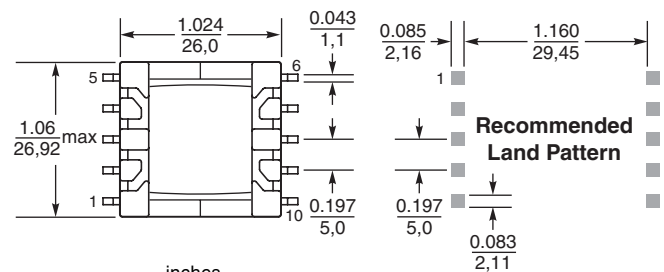
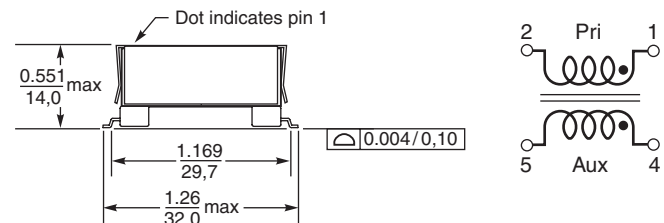
Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 24 parts per tray

PCB washing Only pure water or alcohol recommended

Part number	Inductance ¹ ±10% (µH)	DCR max (Ohms)		SRF ² (MHz)	Turns ratio pri : aux	Isat (A) ³			Irms (A) ⁴	
		pri	aux			10% drop	20% drop	30% drop	20°C rise	40°C rise
GA2972-AL	330	0.30	0.35	1.2	8 : 1	4.2	4.5	4.8	1.7	2.3

1. Inductance measured at 100 kHz, 1.1 Vrms, 0 Adc using an Agilent/ HP 4263B impedance analyzer or equivalent.
 2. SRF tested on an Agilent/HP 4192A.
 3. DC current at which the inductance drops the specified amount from its value without current.
 4. Current that causes the specified temperature rise from 25°C ambient.
 5. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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

Coilcraft® These parts are preproduction products for electrical evaluation only.
Specification subject to change without notice.

Document 657-1 Revised 01/22/09

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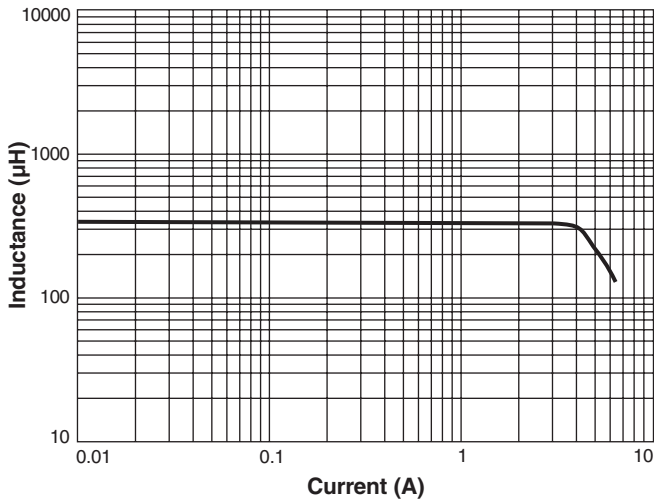
E-mail info@coilcraft.com Web <http://www.coilcraft.com>



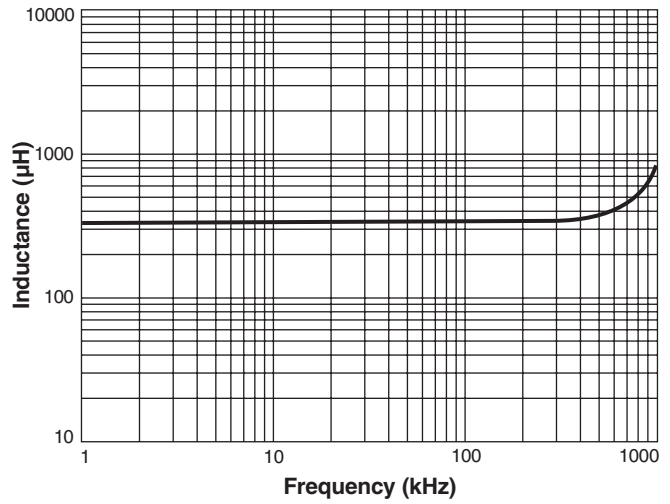
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SMT PFC Boost Inductor - GA2972-AL

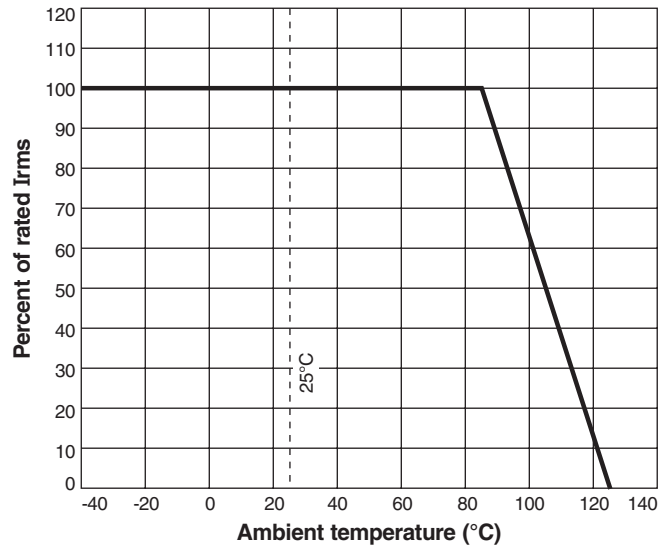
L vs Current



L vs Frequency



I_{rms} Derating



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