

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

Storage temperature Component: -40°C to $+125^{\circ}\text{C}$.
Packaging: -40°C to $+80^{\circ}\text{C}$

Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 85% relative humidity)

Mean Time Between Failures (MTBF) 26,315,789 hours

Packaging 50/13" reel Plastic tape: 56 mm wide, 0.5 mm thick, 36 mm pocket spacing, 14.45 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number ¹	Inductance ² $\pm 10\%$ (μH)	DCR max (Ohms)		SRF ³ (MHz)	Turns ratio pri : aux	Isat (A) ⁴			Irms (A) ⁵	
		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. When ordering, please specify **packaging** code:

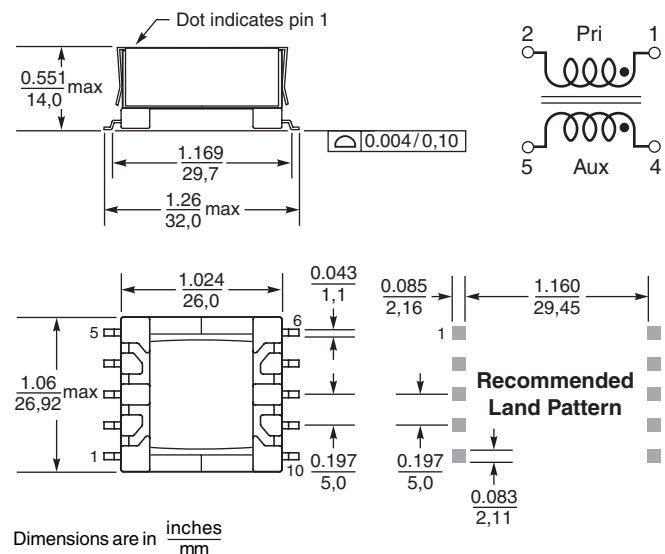
GA2972-AL D

Packaging: **D** = 13" machine-ready reel. EIA-481 embossed plastic tape (50 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

- Inductance measured at 100 kHz, 1.1 Vrms, 0 Adc using an Agilent/HP 4263B impedance analyzer or equivalent.
- SRF tested on an Agilent/HP 4192A.
- DC current at which the inductance drops the specified amount from its value without current.
- Current that causes the specified temperature rise from 25°C ambient.
- Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Coilcraft®

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

Document 657-1 Revised 10/31/08

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

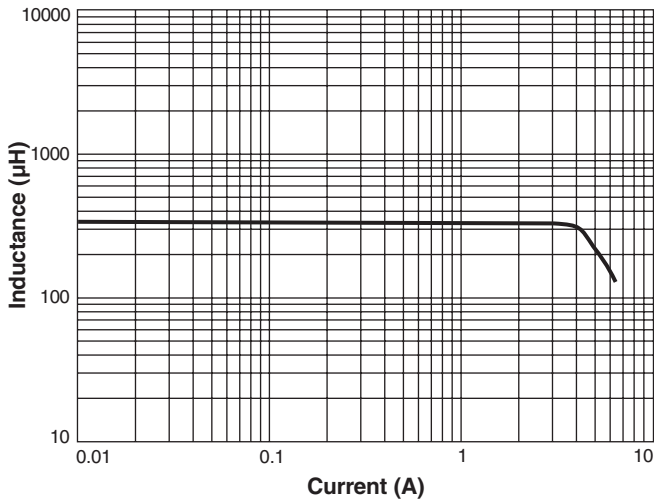
E-mail info@coilcraft.com Web <http://www.coilcraft.com>



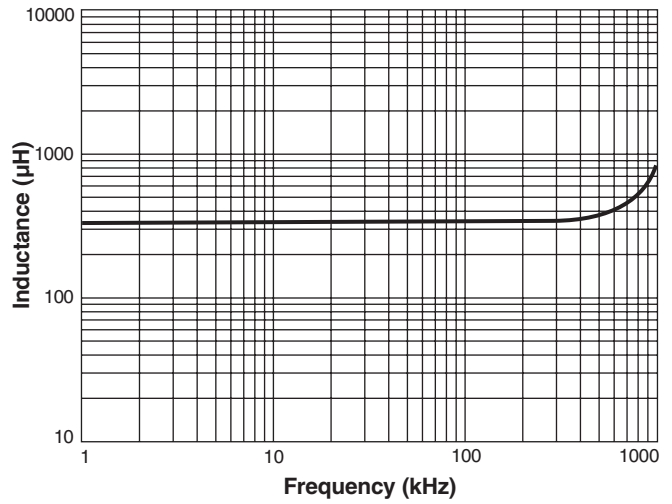
NEW!

SMT PFC Boost Inductor - GA2972-AL

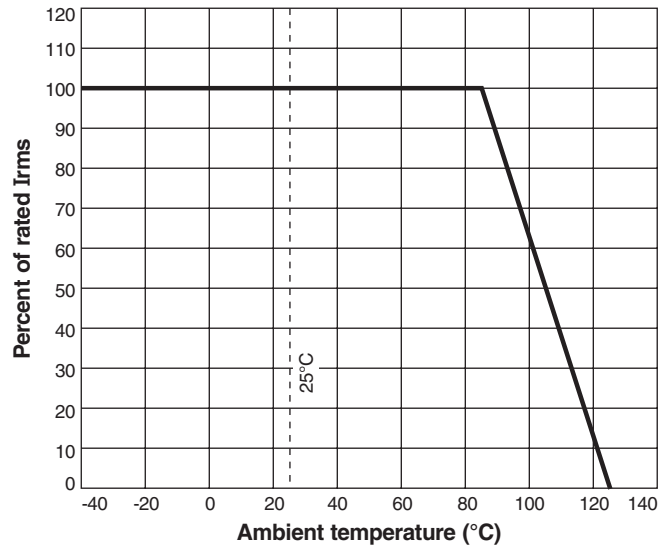
L vs Current



L vs Frequency



I_{rms} Derating



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

Document 657-2 Revised 10/31/08

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

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