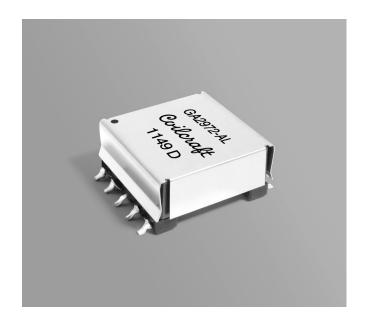


## SMT PFC Boost Inductor For ON Semiconductor NCP1606 PFC Controller



- 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.
- 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 Irms current, +85°C to +125°C with derated current

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

Tray 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)

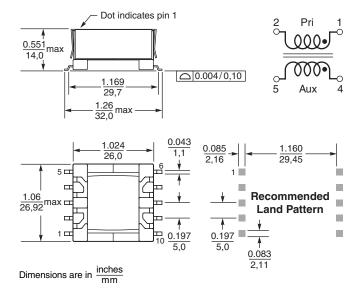
Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332 Packaging 24 parts per tray

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

Part number	Inductance <sup>1</sup> ±10% (µH)	DCR max (Ohms)		SRF <sup>2</sup>	Turns ratio	Isat (A) <sup>3</sup>			Irms (A) <sup>4</sup>	
		pri	aux	(MHz)	pri : aux	10% drop	20% drop	30% drop	20°C rise	40°C rise
GA2972-AI	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.



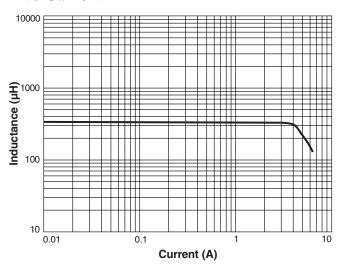




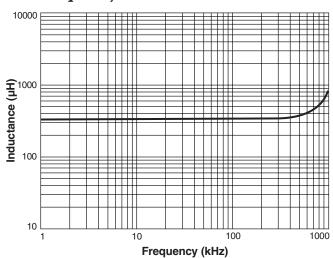
# NEW!

## SMT PFC Boost Inductor-GA2972-AL

### L vs Current



### L vs Frequency



## **Irms Derating**

