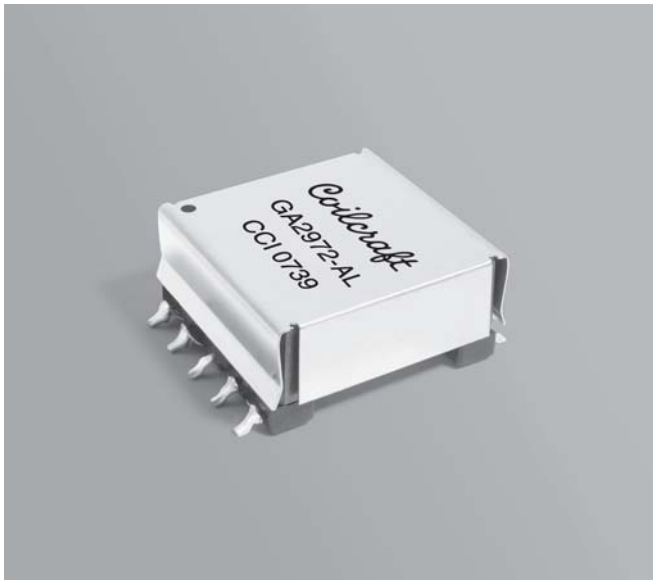
NEW!

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 Irms 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

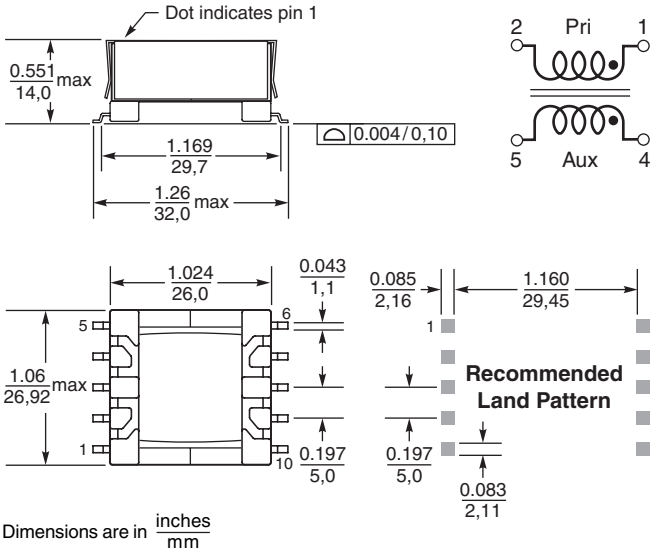
Packaging 24 parts per tray

PCB washing Only pure water or alcohol recommended

Part number	Inductance[1] ±10% (µH)	DCR max (Ohms) pri	DCR max (Ohms) aux	SRF[2] (MHz)	Turns ratio pri : aux	Isat (A)[3] 10% drop	Isat (A)[3] 20% drop	Isat (A)[3] 30% drop	Irms (A)[4] 20°C rise	Irms (A)[4] 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 inches / mm

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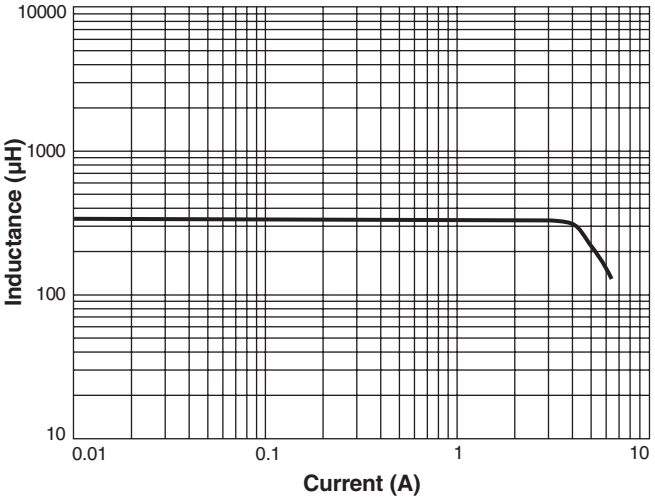
NEW!

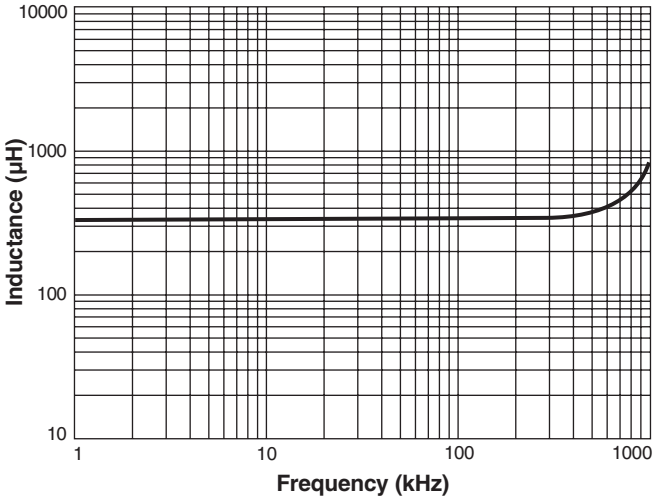
RoHS COMPLIANT

SMT PFC Boost Inductor–GA2972-AL

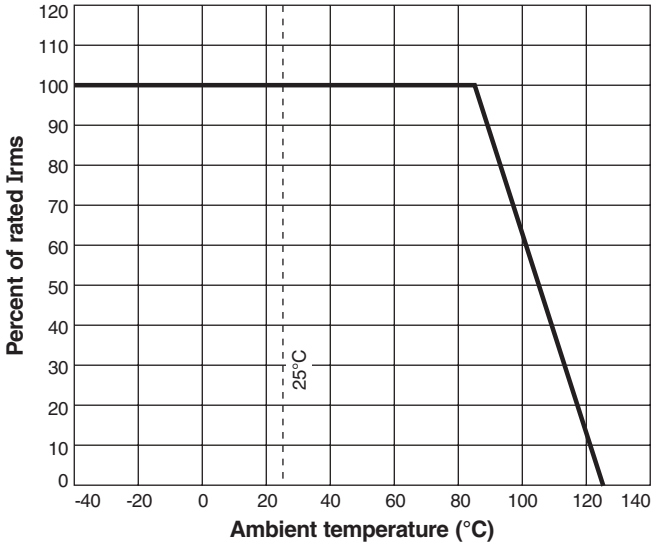
L vs Current



L vs Frequency



Irms Derating



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