

## PFC Boost Inductor NCP1607 and NCP1608 PFC Controllers

## For ON Semiconductor



- Designed to operate in 100 Watt applications.
- Referenced as L<sub>BOOST</sub> in application notes AND8353/D and AND8396/D.
- Auxiliary winding provides zero current detection (ZCD) information and can also supply power to the chipset.
- 1000 Vrms winding to winding isolation

Core material Ferrite

Terminations RoHS compliant tin-silver over tin over copper over

Weight 45.6 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 +85°C.

Packaging: -40°C to +80°C

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

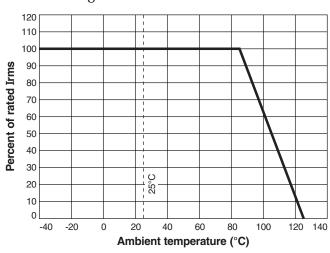
Packaging 120 parts per tray

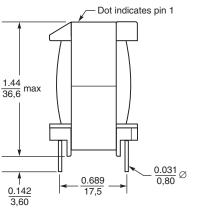
PCB washing Only pure water or alcohol recommended

	Inductance <sup>1</sup>	Inductance ctance <sup>1</sup> at Ipk Ipk		DCR max (Ohms) <sup>2</sup>		Leakage inductance3	Turns ratio	Irms (A) <sup>4</sup>	
Part number	±10% (µH)	min (μH)	(A)	pri (1-7)	aux (6-12)	max (µH)	pri : aux	20°C rise	40°C rise
JA4224-AL	400	380	4.0	0.29	0.38	115	10:1	1.7	2.8

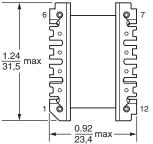
- 1. Inductance measured at 100 kHz, 0.1 V, 0 Adc using an Agilent/ HP 4284A impedance analyzer or equivalent.
- 2. DCR measured on Cambridge Technology micro-ohmmeter.
- 3. Leakage inductance is for the primary and measured with pins 6 and 12
- 4. Current that causes a 40°C temperature rise from 25°C ambient.
- 5. Electrical specifications at 25°C.

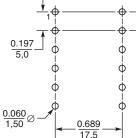
## **Irms Derating**











Dimensions are in inches

Specifications subject to change without notice.

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