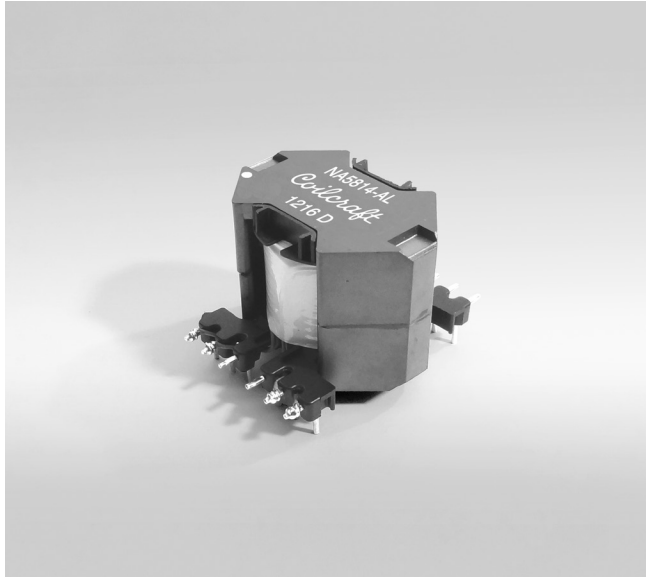


NEW!

Flyback Transformer

For Microchip AN1444
Microinverter



- Developed for the Microchip AN1444 Grid-Connected Solar Microinverter
- Designed to operate at 57 kHz with 20 – 55 Vdc input
- Rectified sine wave output
- Maximum power: 100 W
- 3000 Vrms, one minute isolation primary to secondary
- 1500 Vrms, one minute isolation windings to core

Core material Ferrite

Terminations RoHS tin-silver-copper over tin over copper-clad steel.

Weight 90 g

Ambient temperature –40°C to +85°C

Storage temperature Component: –40°C to +85°C.

Tray 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)

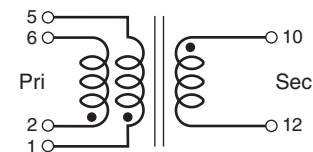
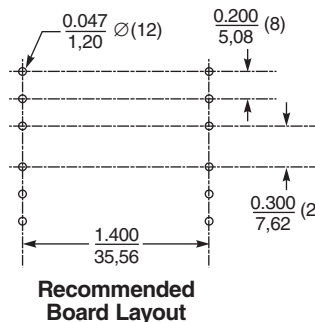
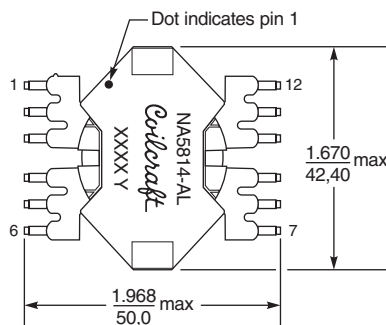
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 20 parts per tray

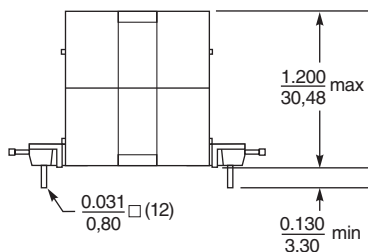
PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number	L at 0 A ¹ ±10% (µH)	L at Ipk ² min (µH)	DCR max (Ohms) ³		Leakage L ⁴ max (µH)	Turns ratio pri : sec	Ipk ² (A)	Output (Vrms)
			pri	sec				
NA5814-AL	55.0	44.0	0.0475	0.360	1.45	1 : 7	13.6	230
NA5919-AL	55.0	38.5	0.0480	0.110	1.58	1 : 4	13.6	110

1. Inductance is for the primary, measured at 150 kHz, 1.0 Vrms, 0 Adc.
2. Ipk is the peak current drawn at minimum input voltage.
3. DCR for the primary is with windings connected in parallel
4. Leakage inductance measured on the primary winding with the secondary pins shorted.
5. Ambient operating temperature range –40°C to +85°C.
6. Electrical specifications at 25°C.



Primary windings to be connected in parallel on the PCB.



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

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