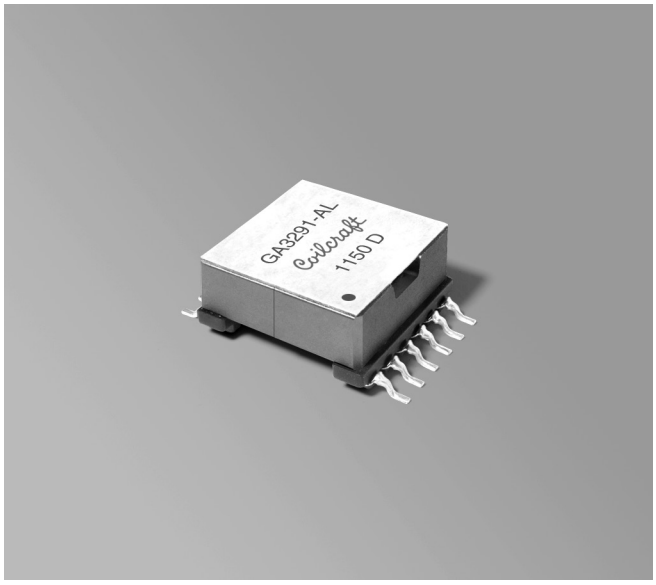
Forward Converter Transformer

For Akros AS1130 PoE Controller



- Developed for Akros Silicon AS1130, 30 W PoE Controller with Integrated DC-DC Conversion
- Designed for forward topology operating at 350 kHz
- 1500 Vrms, one minute isolation from primary to secondary

Core material Ferrite

Terminations RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 10.7 g

Ambient temperature –40°C to +125°C

Storage temperature Component: –40°C to +125°C. Tape and reel 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 175 per 13″ reel Plastic tape: 44 mm wide, 0.4 mm thick, 32 mm pocket spacing, 11.9 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number[1]	Inductance[2] ±25% (µH)	DCR max (Ohms)[3] pri	DCR max (Ohms)[3] sec	Leakage inductance[4] max (µH)	Input voltage range (V)	Turns ratio[5] pri : sec	Output	Input filter inductor	Output filter inductor
GA3291-AL_	203	0.065	0.031	0.215	36 – 57	1 : 0.923	12 V, 2.5 A	DO1608C-103	MSS1278-683

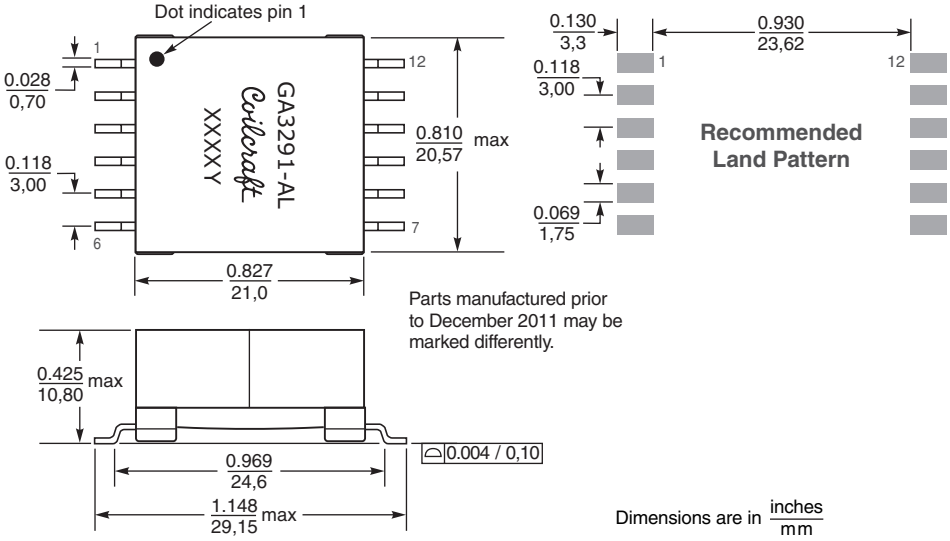
1. When ordering, please specify a **packaging** code:

GA3291-ALD

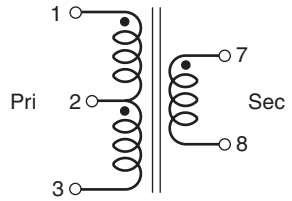
Packaging: **D** = 13″ machine ready reel. EIA-481 embossed plastic tape (175 parts per full reel).
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance is measured at 300 kHz, 0.6 Vrms, 0 Adc.
3. DCR for the primary is measured from pin 1 to pin 3.
4. Leakage inductance is for the primary (pin 1 to pin 3) and is measured with the secondary shorted.
5. Turns ratio is based on the entire the primary winding (pin 1 to pin 3).
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.



Parts manufactured prior to December 2011 may be marked differently.



Primary is pin 1 to pin 3.Terminal 2 is for internal connection only. Do not connect terminal 2 to ground or any circuitry.

Dimensions are in inches / mm

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