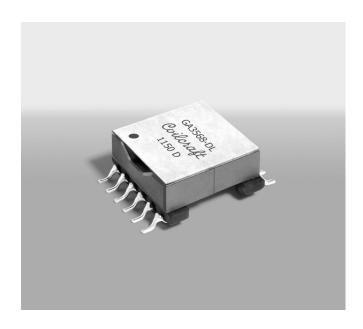


Flyback Transformers

For Akros AS1135 **PoE Controller**



- Flyback transformers for IEEE802.3at PoE applications
- Input voltage GA3568: 36 57 V; HA3809: 10 57 V
- 1500 Vrms, one minute isolation from primary and bias to secondary and sync windings.

Core material Ferrite

Terminations RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 11.4 - 11.8 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 with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

Parts manufactured prior to December 2011 may

be marked differently.

Part	Inductance at 0 A ²	Inductance at Ipk ³	DCR max (Ohms)4			Leakage inductance5	Turns ratios ⁶			Ipk ³		
number ¹	±10% (µH)	min (µH)	pri	sec	bias	sync	max (µH)	pri:sec	pri:bias	pri:sync	(A)	Output ⁷
GA3568-DL_	60	54	0.132	0.0055	0.220	0.200	1.20	1:0.167	1:0.29	1:0.29	2.6	3.3 V, 9.1 A
HA3809-AL_	30	25	0.042	0.010	0.165	0.165	0.680	1:0.176	1:0.29	1:0.29	3.9	3.3 V, 9.1 A

1. When ordering, please specify termination and packaging codes:

HA3809-ALD

Termination: L = RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or

S = non-RoHS tin-lead (63/37).

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 for the primary, measured at 300 kHz, 0.7 Vrms. For the GA3568-DL inductance is per
- 3. Peak primary current drawn at minimum input voltage.
- 4. DCR for the secondary is with the windings connected in parallel. For GA3568-DL DCR for the primary is with both windings connected in parallel.
- 5. Leakage inductance is for the primary windings with the secondary windings shorted.
- 6. Turns ratios are for the primary (windings connected in parallel for the GA3568-DL) and with the secondary windings connected in parallel.
- 7. Output of the secondary is with the windings connected in parallel. Bias winding output is 5 V, 20 mA.
- 8. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

21,00 0.080 0.969 GA3568-DL HA3809-AL 24.60 0.930 0.028 23.62 Sec Recommended **Land Pattern** Bias 0.118 0.118 Primary windings and secondary Secondary windings to be 3,0 connected in parallel on inches windings each to be connected in Dimensions are in parallel on PC board. PC board.

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This product may not be used in medical or high risk applications without prior Coilcraft approval Specification subject to change without notice.

Please check web site for latest information.

Dot indicates pin 1

0.810 max

0.004/0,10

20,57