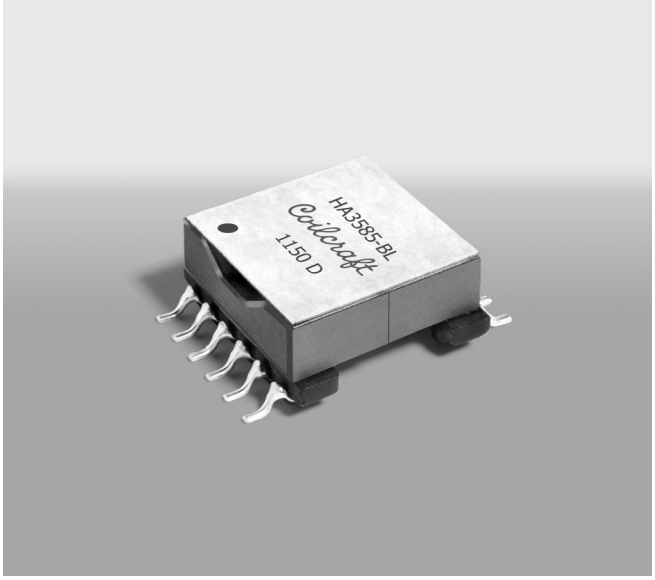
Flyback Transformers

For Akros AS1113 PoE Controller



- Flyback transformer for 13 W PoE applications
- Designed to operate with 10 – 57 V input at 300 kHz
- 500 Vrms, one minute isolation from primary to secondary windings

Core material Ferrite

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

Weight 5.3 – 5.7 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 200 per 13″ reel Plastic tape: 44 mm wide, 0.4 mm thick, 28 mm pocket spacing, 9.6 mm pocket depth

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

Part number[1]	Inductance at 0 A[2] ±10% (µH)	Inductance at Ipk[3] min (µH)	DCR max (Ohms)[4] pri	sec	bias	sync	Leakage inductance[5] max (µH)	Turns ratios[6] pri:sec	pri:bias	pri:sync	Ipk[3] (A)	Output[7]
HA3585-BL_	40	36	0.140	0.014	0.220	0.255	0.740	1:0.29	1:0.43	1:0.43	2.6	3.3 V, 3.9 A
HA3586-BL_	40	36	0.140	0.024	0.230	0.265	0.625	1:0.36	1:0.43	1:0.43	2.6	5.0 V, 2.6 A

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

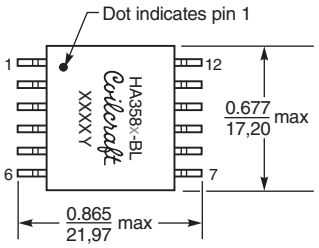
HA3586-BLD

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).

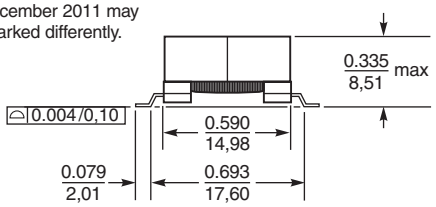
Packaging: **D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (200 parts per full reel). **B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

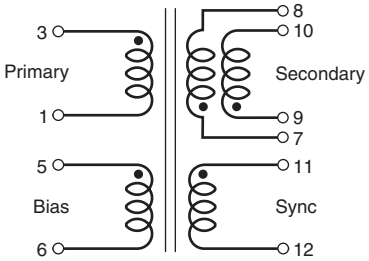
2. Inductance is for the primary, measured at 300 kHz, 0.5 Vrms.
3. Peak primary current drawn at minimum input voltage.
4. DCR for the secondary is with the windings connected in parallel.
5. Leakage inductance is for the primary windings with the secondary windings shorted.
6. Turns ratios are with 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.

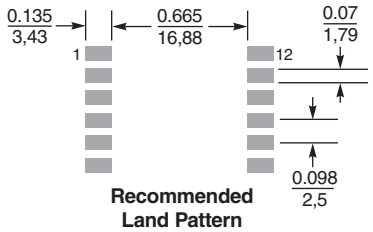


Parts manufactured prior to December 2011 may be marked differently.

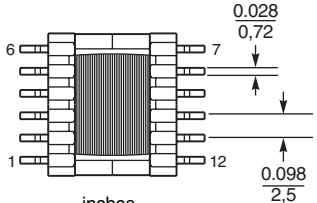




Secondary windings to be connected in parallel on PC board.



Recommended Land Pattern



Dimensions are in inches / mm

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