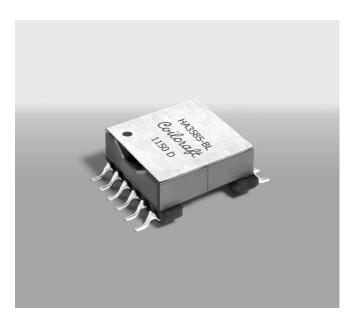


## Flyback Transformers For Akros AS1113 PoE Controller



- 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	Inductance at 0 A <sup>2</sup>	Inductance at Ipk <sup>3</sup>	°	DCR ma	ax (Ohr	ns)4	Leakage inductance <sup>5</sup>	-	Furns rati	<b>0S</b> <sup>6</sup>	Ipk <sup>3</sup>	
number <sup>1</sup>	±10% (μH)	min (µH)	pri	sec	bias	sync	max (µH)	pri:sec	pri:bias	pri:sync	(A)	Output <sup>7</sup>
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 <b>termination</b> and <b>packaging</b> codes:	/- Dot indicates pin 1								
HA3586-BLD									
Termination: L = RoHS tin-silver (96.5/3.5) over tin over nickel over ph Special order: T = RoHS tin-silver-copper (95.5/4/0.5									
Iermination:       L = RoHS tin-silver (96.5/3.5) over tin over inckel 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									
B = Less than full reel. In tape, but not machine ready. To (\$25 charge), use code letter D instead.	have a leader and trailer added								
2. Inductance is for the primary, measured at 300 kHz, 0.5 Vrms.		0.865 max							
<ol> <li>Beak primary current drawn at minimum input voltage.</li> <li>DCR for the secondary is with the windings connected in parallel.</li> </ol>									
5. Leakage inductance is for the primary windings with the secondary wind	d prior								
<ol> <li>Turns ratios are with the secondary windings connected in parallel.</li> <li>Output of the secondary is with the windings connected in parallel.</li> </ol>	ntly.								
Bias winding output is 5 V, 20 mA.		0.335 8,51 max							
8. Electrical specifications at 25°C.									
There to bot obzi oblidening ounder would components before soldening	j	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							
30	<u>0.07</u> 2,01								
000	2,0	「   <b>「</b> 17,60 「							
0.135	$\rightarrow$ $\left  \underbrace{0.665}{16.88} \right  \xrightarrow{0.07} 1.79$	0.028							
	16,88 1,79 1 12								
5 0									
Bias O Sync									
	0.098								
Secondary windings to be connected	Recommended 2,5	inches							
in parallel on PC board.	Land Pattern Dimens	sions are in $\frac{menes}{mm}$							



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