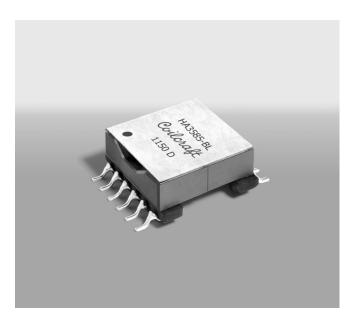


Flyback Transformers For Akros AS1113 PoE Controller



- 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 ²	Inductance at Ipk ³	°	DCR ma	ax (Ohr	ns)4	Leakage inductance ⁵	-	Furns rati	0S ⁶	Ipk ³	
number ¹	±10% (μH)	min (µH)	pri	sec	bias	sync	max (µH)	pri:sec	pri:bias	pri:sync	(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:	/- 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							
 Beak primary current drawn at minimum input voltage. DCR for the secondary is with the windings connected in parallel. 									
5. Leakage inductance is for the primary windings with the secondary wind	d prior								
 Turns ratios are with the secondary windings connected in parallel. Output of the secondary is with the windings connected in parallel. 	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	「 「 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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