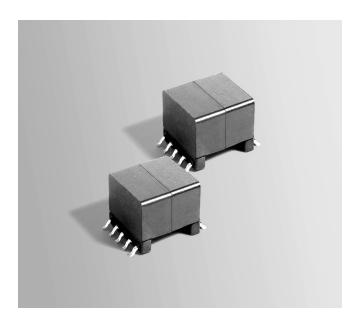


# Flyback Transformers For STMicroelectronics PM8803 PoE Plus Powered Device Controller



- Designed to operate at 250 kHz in continuous conduction mode with 42-57 Volts input
- 1500 Vrms, one minute isolation from the primary and bias windings to the secondary windings

## Core material Ferrite

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

Weight 6.5 g

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°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: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part	Power	Inductance at 0 A <sup>2</sup>	Inductance at Ipk3	DCR max (Ohms) <sup>4</sup>			Leakage inductance <sup>5</sup>	Turns ratio <sup>6</sup>		Ipk <sup>3</sup>	
number <sup>1</sup>	(W)	±10% (µH)	min (μΗ)	pri	sec	bias	max (µH)	pri : sec	pri : bias	(A)	Output <sup>7</sup>
HA3691-AL_	20	100	90.0	0.185	0.0085	0.340	0.805	1:0.25	1:0.469	1.3	5 V, 4 A
JA4173-AL_	20	100	90.0	0.211	0.0060	0.404	1.60	1:0.156	1:0.50	1.3	3.3 V, 6 A

1. When ordering, please specify packaging code:

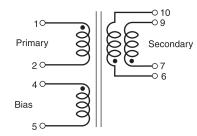
# **HA3691-AL**D

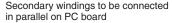
Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).

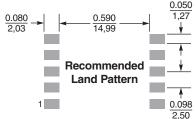
> B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

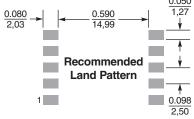
- 2. Inductance measured at 250 kHz, 0.2 Vrms, 0 Adc.
- 3. Peak primary current drawn at minimum input voltage.
- 4. DCR for the secondary is with windings connected in parallel.
- 5. Leakage inductance is for the primary and is measured with the secondary shorted.
- 6. Turns ratio is with the secondary windings connected in parallel.
- 7. Output of the secondary is with the windings connected in parallel. Bias winding output is 10 V. 20 mA.
- 8. Electrical specifications at 25°C.

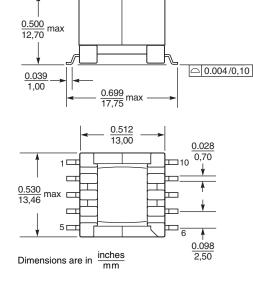
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.











Dot above pin1



US +1-847-639-6400 sales@coilcraft.com UK +44-1236-730595 sales@coilcraft-europe.com Taiwan +886-2-2264 3646 sales@coilcraft.com.tw **China** +86-21-6218 8074 sales@coilcraft.com.cn Singapore + 65-6484 8412 sales@coilcraft.com.sg

### Document 788 Revised 03/31/11

© Coilcraft Inc. 2013 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