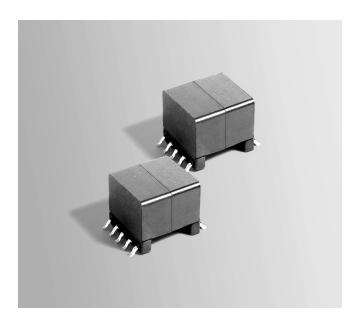


Flyback Transformers For STMicroelectronics PM8803 PoE Plus Powered Device Controller



- 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 ²	Inductance at Ipk ³	DCR max (Ohms) ⁴			Leakage inductance5	Turns ratio ⁶		Ipk ³	
number ¹	(W)	±10% (µH)	min (μH)	pri	sec	bias	max (µH)	pri : sec	pri : bias	(A)	Output ⁷
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

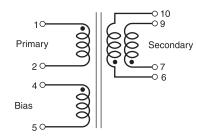
1. When ordering, please specify packaging code:

HA3691-ALD

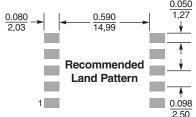
Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).

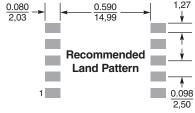
- B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.
- 2. Inductance measured at 250 kHz, 0.2 Vrms, 0 Adc.
- 3. Peak primary current drawn at minimum input voltage.
- 4. DCR for the secondary is with windings connected 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.

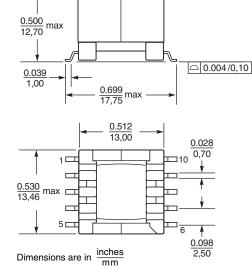
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Secondary windings to be connected in parallel on PC board







Dot above pin1



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JA4173-ALD JA4173-ALB HA3691-ALB HA3691-ALD