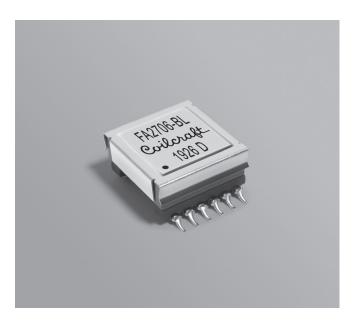


Flyback Transformers

For STMicroelectronics PM8800 **PoE Powered Device Controller**



- Flyback transformers developed for STMicroelectronics
- Operates at 250 kHz with 30 60 V input
- Versions for 5 V and 3.3 V output in 20 Watt applications
- 1500 Vrms, one minute isolation primary and bias to secondary windings

Core material Ferrite

Weight 8.4 - 8.6 g

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

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)

Packaging 200 per 13" reel Plastic tape: 44 mm wide, 0.4 mm thick, 24 mm pocket spacing, 11.5 mm pocket depth PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Internal code

□12

Part	L at 0 A ²	Lat Ipk ³	D	DCR max (Ohms) ⁴			Leakage inductance ⁵	Turns ratio ⁶			Ipk ³	
number ¹	±10% (μH)	min (µH)	pri	sec	drive	aux	max (µH)	pri:sec	pri:drive	pri:aux	(Å)	Output ⁷
FA2706-BL_	77.8	70.0	0.155	0.008	0.215	0.382	1.53	6.80 : 1	4.25:1	2.43:1	3.0	3.3 V, 6 A
FA2707-BL_	77.8	70.0	0.155	0.019	0.210	0.380	1.10	4.86 : 1	4.25:1	2.43:1	3.0	5.0 V, 4 A

Dot indicates pin 1.

0.028

0 70

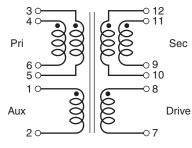
1. When ordering, please specify packaging code:

FA2707-BLD

- D = 13" machine ready reel. EIA-481 embossed plastic Packaging: tape (200 per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.
- 2. Inductance is for the primary, measured at 250 kHz, 0.2 Vrms.
- 3. Peak primary current drawn at minimum input voltage.
- 4. DCR for the primary and the secondary is with windings connected in parallel. Leakage inductance is for the primary, measured with the secondary 5.
- and drive windings shorted. 6. Turns ratio is with the primary and the secondary windings connected in
- parallel.
- Output of the secondary is with the windings connected in parallel. Aux winding output is 10 V; drive winding output is 5.5 V. 7.

8. Electrical specifications at 25°C

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





The primary and secondary windings are to be connected in parallel on the PC board.

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

_ 0.004 / 0,10 0.799 20.30 0.950 max 24.13 inches Dimensions are in mm 0.130 0.748 19,0 3 30 12 0.07 1.79 Recommended Land Pattern <u>0.100</u> 2,54

Document 672 Revised 08/08/19

© Coilcraft Inc. 2021 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

FA2706-B XXX Y 0.748 max 0.100 19,0 2.54 0.<u>433</u> max 11.0

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Coilcraft:

FA2707-BLB FA2706-BLB FA2706-BLD FA2707-BLD