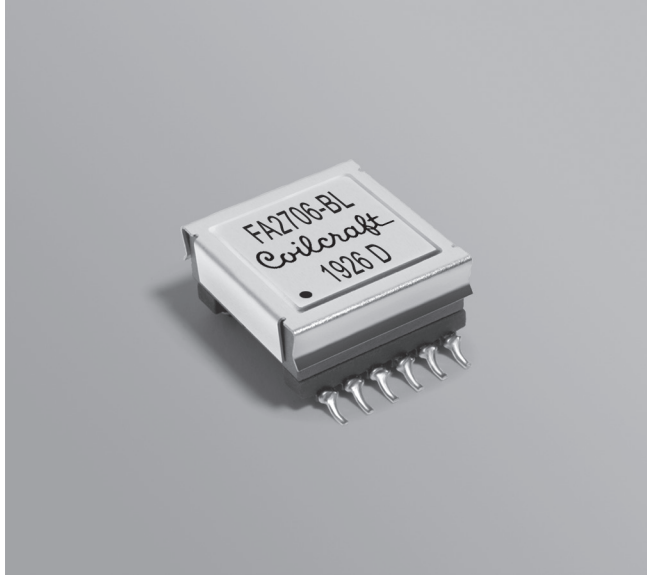


Flyback Transformers

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)

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, 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](#).

Part number ¹	L at 0A ² ±10% (µH)	Lat Ipk ³ min (µH)	DCR max (Ohms) ⁴				Leakage inductance ⁵ max (µH)	Turns ratio ⁶			Ipk ³ (A)	Output ⁷
			pri	sec	drive	aux		pri:sec	pri:drive	pri:aux		
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

1. When ordering, please specify **packaging** code:

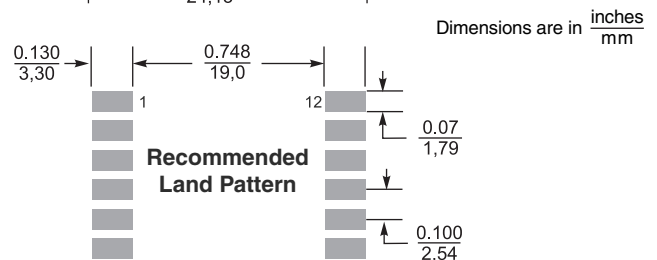
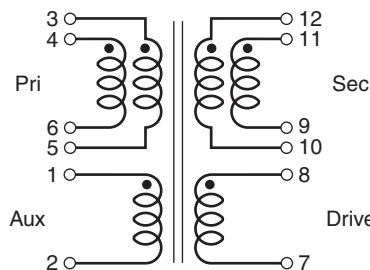
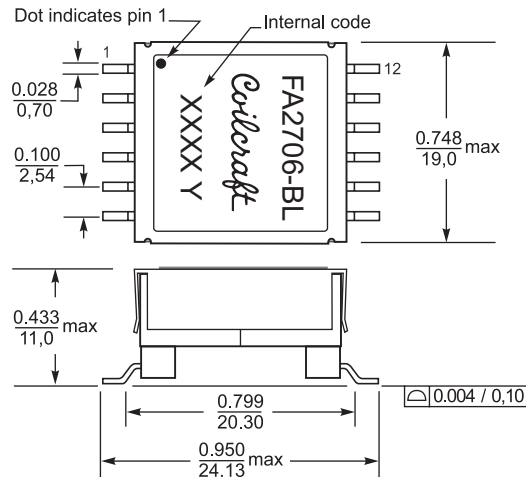
FA2707-BLD

Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (200 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.

- Inductance is for the primary, measured at 250 kHz, 0.2 Vrms.
- Peak primary current drawn at minimum input voltage.
- DCR for the primary and the secondary is with windings connected in parallel.
- Leakage inductance is for the primary, measured with the secondary and drive windings shorted.
- 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.
- Electrical specifications at 25°C.

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



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