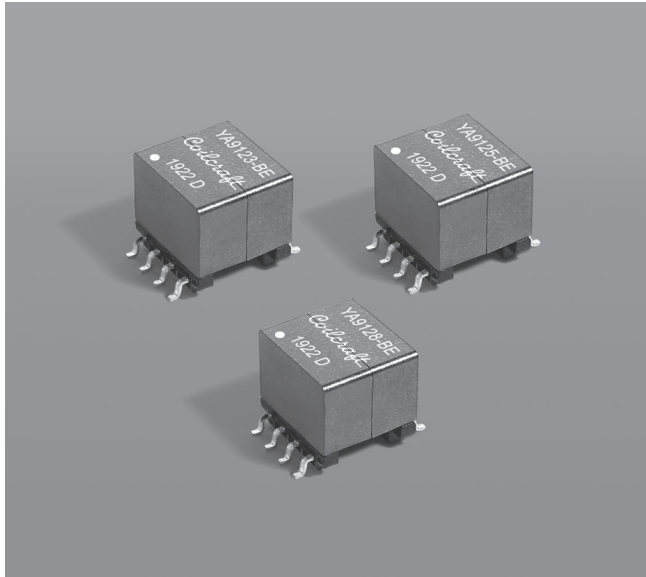


NEW!

Flyback Transformers

For Maxim
MAX17690 DCM
Flyback Controller

- Designed for Maxim Integrated MAX17690 60 V No-Opto Isolated Flyback Controller
- Discontinuous conduction mode Flyback transformers
- Optimized for 125 – 150 kHz with 8 – 28 V or 18 – 60 V input
- 1500 Vrms, one minute isolation between primary and secondary

Core material Ferrite**Terminations** RoHS tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.**Weight** 2.65 – 2.75 g**Ambient temperature** –40°C to +85°C**Max Part Temperature** +125°C (ambient + temperature rise)**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)**

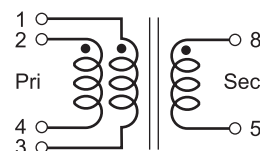
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance at 0 A ² ±10% (µH)	Isat ³ (A)	DCR max (Ohms)		Leakage inductance max (µH) ⁴	Turns ratio pri : sec	Isolation ⁵ (Vrms)	Power (W)	Output
			pri	sec					
8 – 28 V input									
YA9123-BED	8	5.9	0.025	0.024	0.124	1 : 0.751	1500	6	5 V, 1.2 A
YA9124-BED	8	5.9	0.025	0.125	0.124	1 : 1.625	1500	6	12 V, 0.5 A
YA9125-BED	8	5.9	0.025	0.306	0.100	1 : 3.125	1500	6	24 V, 0.25 A
18 – 60 V input									
YA9126-BED	40	2.3	0.095	0.020	0.460	1 : 0.313	1500	6	5 V, 1.2 A
YA9127-BED	40	2.3	0.095	0.090	0.353	1 : 0.750	1500	6	12 V, 0.5 A
YA9128-BED	40	2.3	0.095	0.260	0.350	1 : 1.375	1500	6	24 V, 0.25 A

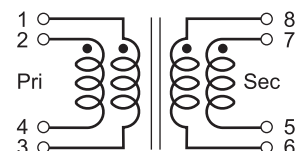
- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance is for the primary, measured at 150 kHz, 0.1 Vrms, 0 Adc.
 - DC current that causes the primary inductance drop 30% from its value without current. [Click for temperature derating information.](#)
 - Leakage Inductance is for the primary, measured with secondary windings shorted together.
 - 1500 Vrms, one minute isolation (hipot) between windings.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Schematics

YA9124, YA9125,
YA9127, YA9128

*Connect pin 1 to 2 and pin 3 to 4 on the PC board

YA9123, YA9126



*Connect pin 1 to 2, 3 to 4, 5 to 6, and pin 7 to 8 on the PC board



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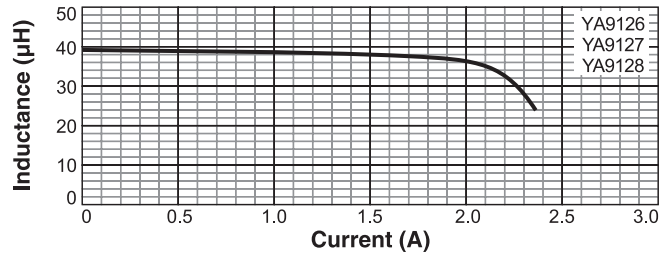
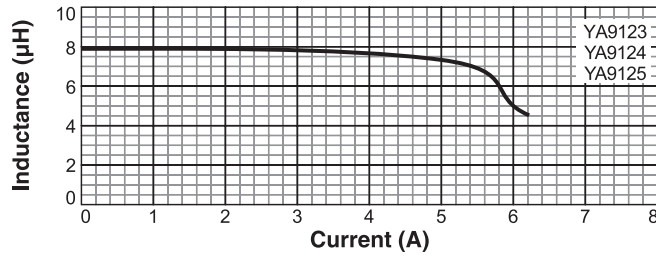
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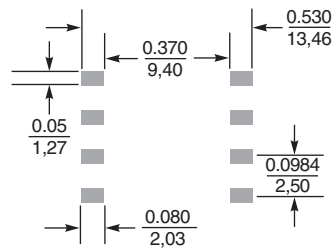
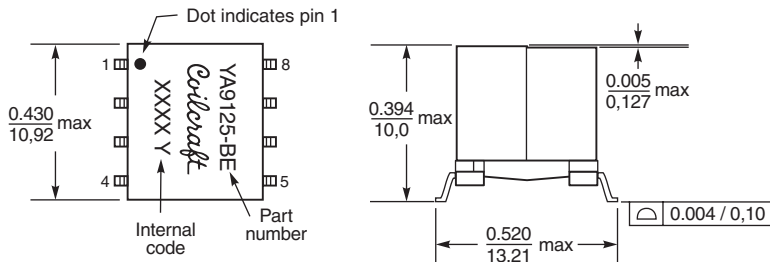


Flyback Transformers

L vs Current



Dimensions



Recommended

Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Packaging 350/13" reel Plastic tape: 24 mm wide, 0.50 mm thick, 16 mm pocket spacing, 10.35 mm pocket depth



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