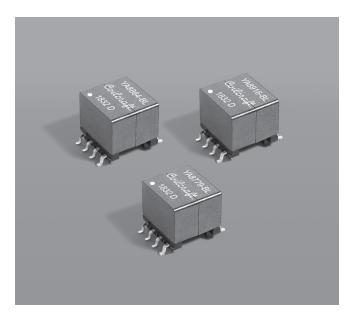








No-Opto Flyback Transformers



- Three output versions optimized for Texas Instruments LM5180 and LM5180-Q1 Flyback Converter, Analog Device LT830x Flyback Converter and similar ICs
- Designed to operate up to 350 kHz with 4.5 70 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 2.05 - 2.15 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 $<30^{\circ}$ 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** 300/13" reel Plastic tape: 32 mm wide, 0.42 mm thick, 20 mm pocket spacing, 10.69 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part	Inductance at 0 A ²	Inductance at 2 A ³	DCR max (Ohms) ⁴			Leakage inductance	Turns ratio		Power	
number ¹	±10% (µH)	(μH)	pri	sec1	sec2	max (µH)⁵	pri : sec1	pri:sec2	(W)	Output
YA8779-BLD	30	24	0.140	0.013	_	0.380	1:0.330	_	6	5 V, 1.20 A
YA8916-BLD	30	27	0.360	0.695	0.392	0.565	1:1	1:0.52	4.60	15 V, 0.20 A (sec1)
										8 V, 0.20 A (sec2)
YA8864-BLD	30	27	0.180	0.680	0.180	0.295	1:1.5	1:0.40	3.50	20 V, 0.10 A (sec1)
										5 V. 0.30 A (sec2)

- Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape.
 Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
- 2. Inductance is for the primary, measured at 300 kHz, 0.1 Vrms, 0 Adc.
- 3. Minimum inductance for the primary, measured at 300 kHz, 0.1 Vrms, 2 Adc.
- 4. Sec1 DCR for YA8779 is with windings connected in parallel.
- Leakage Inductance is for the primary, measured with secondary windings shorted together.
- 6. Electrical specifications at 25°C.

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



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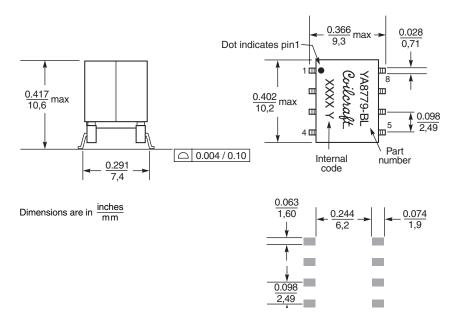
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No-opto Flyback Transformers — YA8779, YA8916, YA8864

YA8779, YA8916, YA8864



Schematics

YA8779*

YA8916

YA8864

1008
Sec 1
15 V, 0.20 A
7
7
1007
Pri
400
5 V, 1.20 A
Pri
5 Sec 2
8 V, 0.20 A
9 Sec 2
8 V, 0.20 A
9 Sec 2
5 V, 0.30 A

*Connect pin 5 to 6 and pin 7 to 8 on the PC board



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