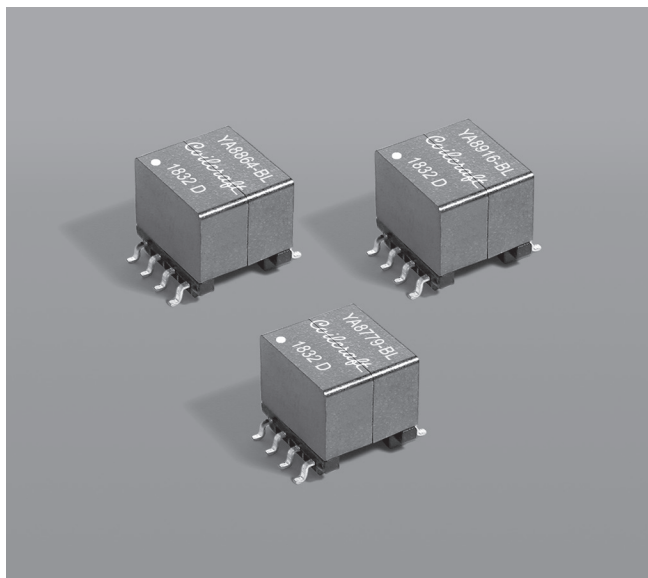




No-Opto Flyback Transformers



- 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°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 number ¹	Inductance at 0 A ² ±10% (μH)	Inductance at 2 A ³ (μH)	DCR max (Ohms) ⁴			Leakage inductance max (μH) ⁵	Turns ratio		Power (W)	Output
			pri	sec1	sec2		pri : sec1	pri : sec2		
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)

1. **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.

5. 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.



www.coilcraft.com

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

Document 1508 Revised 09/28/18

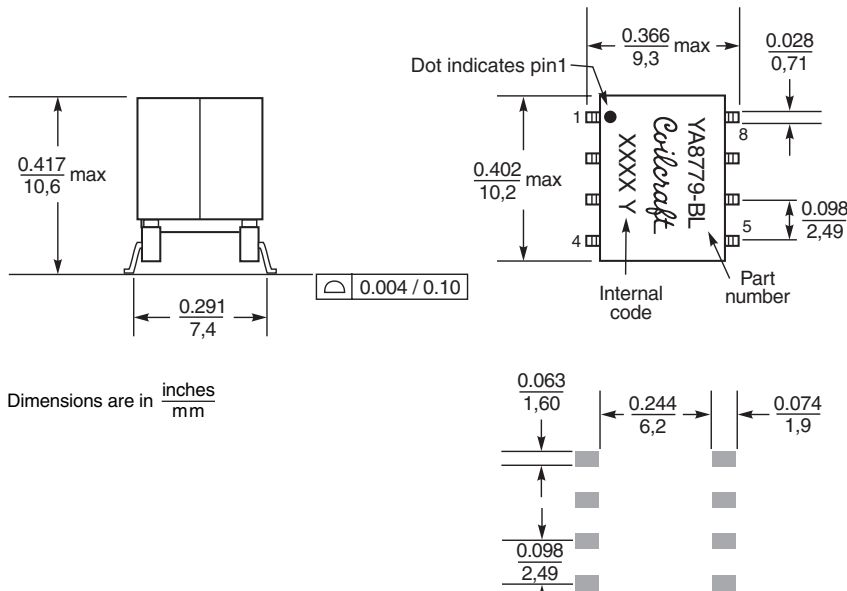
© Coilcraft Inc. 2020

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.



No-opto Flyback Transformers – YA8779, YA8916, YA8864

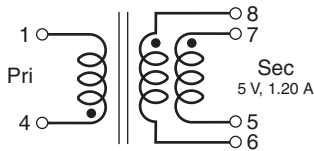
YA8779, YA8916, YA8864



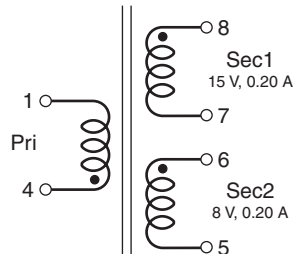
Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Schematics

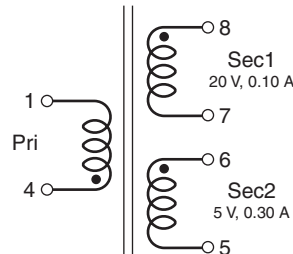
YA8779*



YA8916



YA8864



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