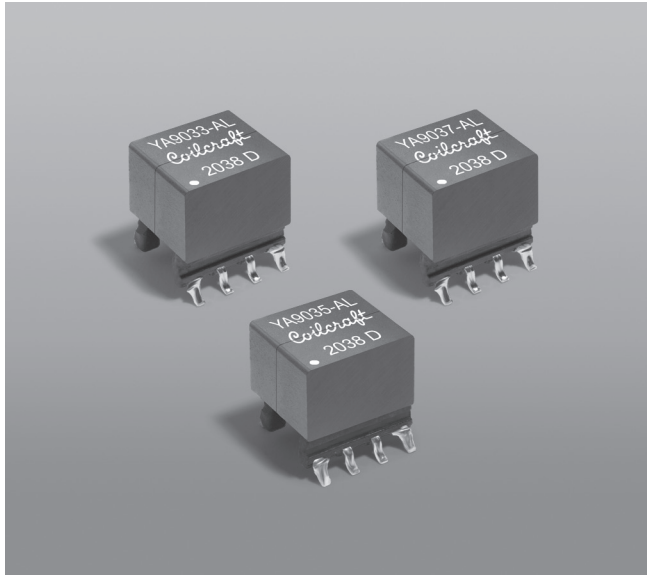



NEW!

No-Opto Flyback Transformers YA903X-AL



- Optimized for LM25180 and LM5180 flyback converters from Texas Instruments
- Five output versions for various single-output designs with 4 – 65 V input
- Eliminates auxiliary winding for simple and reliable converter designs

Core material Ferrite

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

Weight 2 – 2.3 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)

10.06 per billion hours / 9.940E+07 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)	Inductance min at 2 A (µH) ³	DCR max (Ohms)		Leakage inductance max (µH) ⁴	Turns ratio pri : sec	Isolation ⁵ (Vrms)	Power (W)	Output
			pri	sec					
YA9033-ALD	32	25.6	0.240	0.032	0.480	1 : 0.5	1500	6	8 V, 0.75 A
YA9034-ALD	36	28.8	0.244	0.084	0.426	1 : 0.666	1500	6	12 V, 0.5 A
YA9035-ALD	30	24.0	0.168	0.168	0.290	1 : 1	1500	6	15 V, 0.4 A
YA9036-ALD	30	24.0	0.168	0.437	0.314	1 : 2	1500	6	24 V, 0.25 A
YA9037-ALD	32	25.6	0.232	1.444	0.384	1 : 3	1500	6	48 V, 0.1 A

1. **Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (300 parts per full reel). 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 is for the primary, measured at 300 KHz, 0.1 Vrms, 2 Adc.

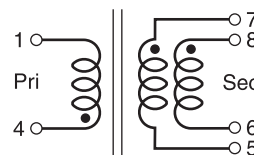
4. Leakage inductance is for the primary winding with the secondary windings shorted.

5. 1500 Vrms, one minute isolation (hipot) between primary and secondary.

6. Electrical specifications at 25°C.

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

Schematics



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



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Document 1647-1 Revised 05/12/21

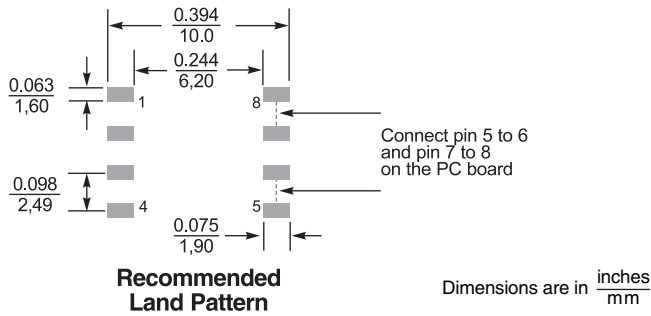
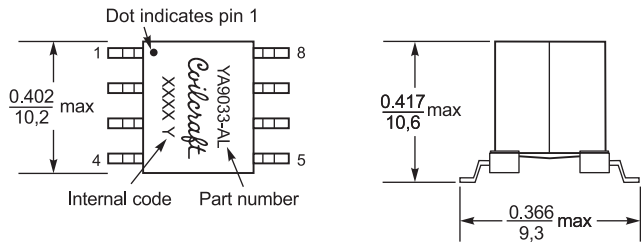
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



No-Opto Flyback Transformers – YA903x-AL

Dimensions



Packaging 300 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 20 mm pocket spacing, 10.69 mm pocket depth