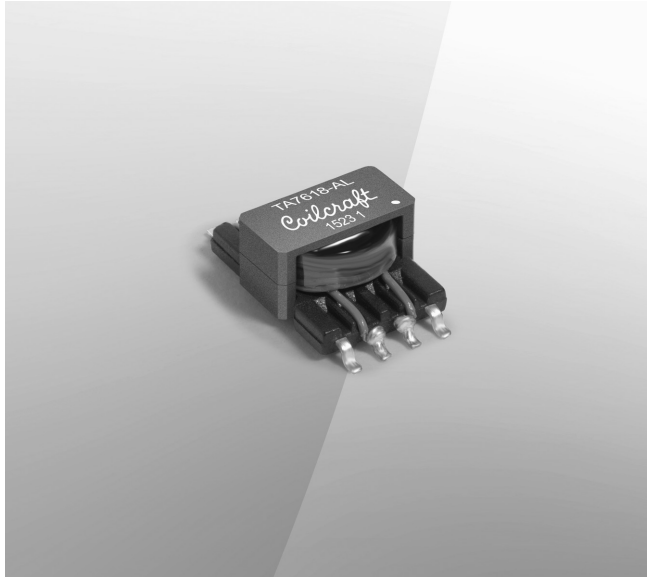


NEW!

Flyback Transformer

For Silicon Labs Si88xx 5kV
Isolated DC-DC Converter

- Developed for use with Silicon Labs Si88xx isolated dc-dc-converter reference designs.
- 5000 Vrms, one minute isolation from primary to secondary
- Designed to meet reinforced insulation class with 8 mm creepage and clearance.
- AEC-200 Grade 1 qualified (–40°C to +125°C ambient)

Core material Ferrite**Terminations** RoHS tin-silver-copper (95.5/3.8/0.7) over tin over nickel over phos bronze.**Weight** 1.1 g**Ambient temperature** –40°C to +125°C**Maximum part temperature** +135°C**Storage temperature** Component: –40°C to +135°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 700 per 13" reel Plastic tape: 32 mm wide, 0.40 mm thick, 16 mm pocket spacing, 5.72 mm pocket depth**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

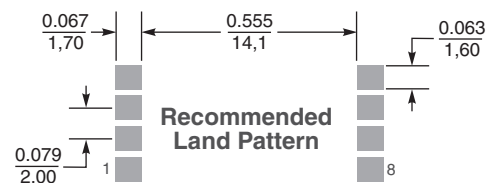
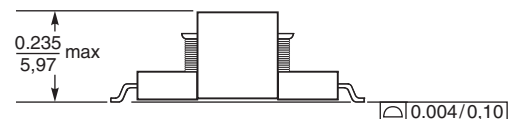
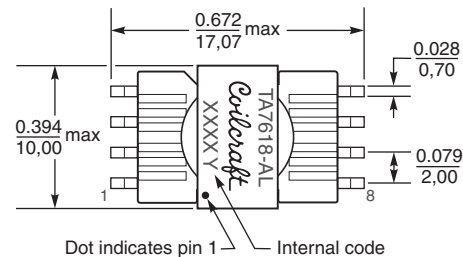
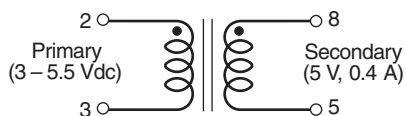
Part number ¹	Input voltage (V)	Inductance ² ±5% (µH)	Leakage inductance ³ max (µH)	DCR max (Ohms)		Turns ratio pri:sec	Isolation ⁴ (Vrms)	Isat ⁵ (A)	Output
				pri	sec				
TA7618-AL_	3.0 – 5.5	2.0	0.064	0.031	0.185	1:4	5000	4.8	5 V, 0.4 A

1. When ordering, specify a **packaging** code:**TA7618-ALD****Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape.

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 on an Agilent/HP 4284 at 100 kHz, 0.1 Vrms, 0 Adc.
- Leakage inductance measured between pins 2 and 3 at 100 kHz, 0.1 Vrms, 0 Adc with pins 8 and 5 shorted.
- Isolation (hipot) measured between windings for one minute.
- DC current that causes an inductance drop of 30% (typ) from its value without current
- Electrical specifications at 25°C.

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

Dimensions are in inches
mm

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