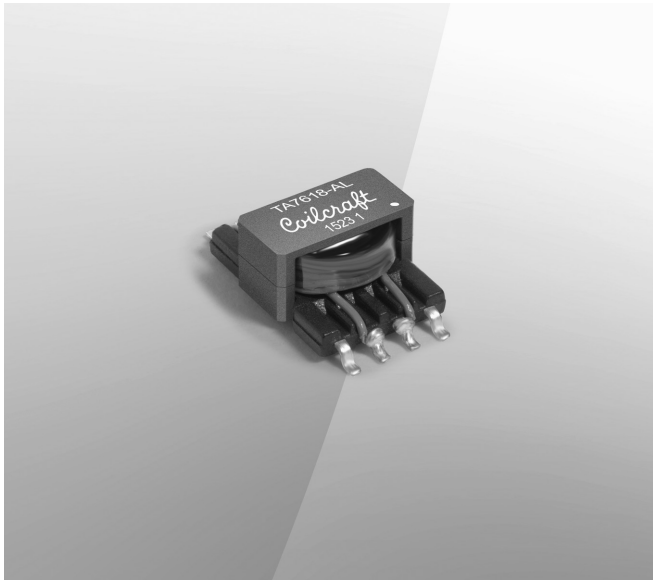
NEW!

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.

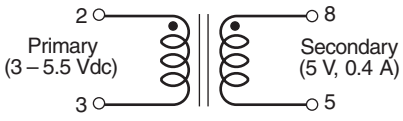
Part number[1]	Input voltage (V)	Inductance[2] ±5% (µH)	Leakage inductance[3] max (µH)	DCR max (Ohms) pri	DCR max (Ohms) sec	Turns ratio pri:sec	Isolation[4] (Vrms)	Isat[5] (A)	Output
TA7618-AL_	3.0 – 5.5	2.0	0.064	0.031	0.185	1:4	5000	4.8	5 V, 0.4 A

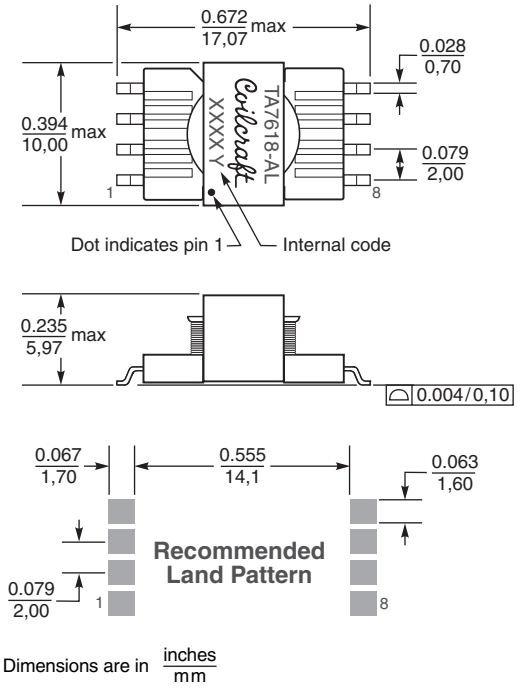
1. When ordering, specify a **packaging** code:

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

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.





Dimensions are in inches / mm

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