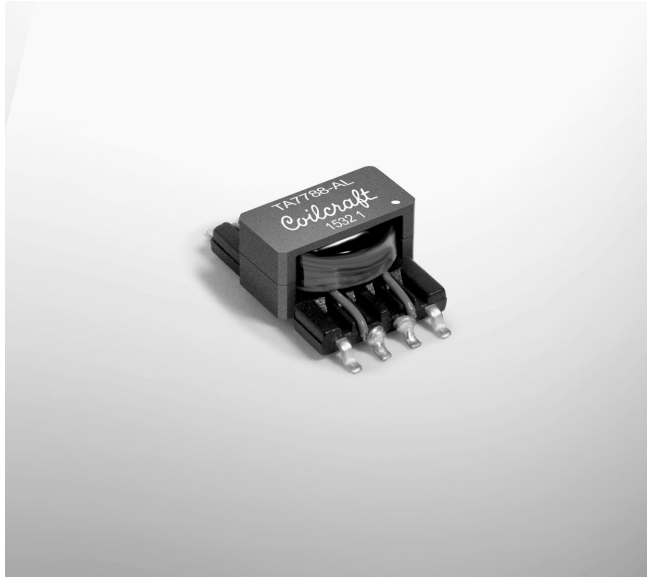


NEW!

Flyback Transformer

For Silicon Labs ISODriver
Isolated DC-DC Converter



- Developed for use with Silicon Labs Si828x ISODriver isolated DC-DC-Converter reference designs
- Ultra-miniature flyback transformer, only 10.0 × 17.07 × 5.97 mm
- 5000 Vrms, one minute isolation primary to secondary
- Designed to meet reinforced insulation class with 8 mm creepage and clearance.

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 +85°C

Maximum part temperature +125°C

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 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:sec1:sec2	Isat ⁴ (A)
				pri	sec1	sec2		
TA7788-AL_	12 – 24	25.0	0.554	0.462	0.683	0.472	1 : 1.25 : 0.75	1.4

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

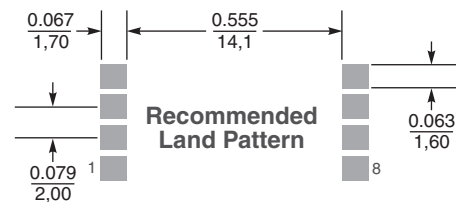
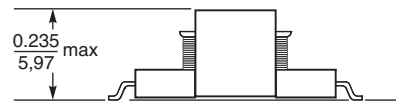
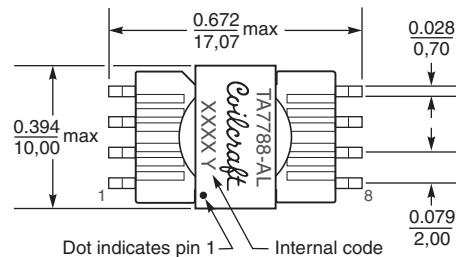
TA7788-ALD

Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape.

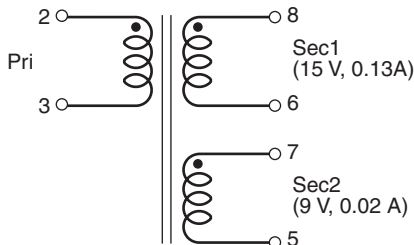
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

- Inductance is for the primary, measured on an Agilent/HP 4284 at 250 kHz, 0.1 Vrms, 0 Adc.
- Leakage inductance measured between pins 2 and 3 at 250 kHz, 0.1 Vrms, 0 Adc with all secondary pins shorted.
- 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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