

**NEW!**

Flyback Transformer

For TI UCC28600
Flyback Green Mode Controller

The FA2443-AL was developed specifically for Texas Instruments UCC28600 Quasi-Resonant Flyback Green Mode Controller and is specified in SLUU256A for the evaluation module. This transformer is designed to operate in discontinuous conduction mode at frequencies up to 140 kHz.

Coilcraft can also custom engineer a transformer to meet your specific requirements.

For free evaluation samples, contact Coilcraft or visit www.coilcraft.com.

Core material Ferrite

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

Weight 89.2 g

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°C.
Packaging: -40°C to +80°C

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 50 parts per tray

PCB washing Only pure water or alcohol recommended

Part number	Inductance at 0 A ¹ ±10% (μH)	Inductance at I _{pk} ² min (μH)	DCR max (Ohms)	Leakage inductance ³ max (μH)	Turns ratio pri : sec ⁴	pri : bias	I _{pk} ² (A)	Isolation ⁵ Vrms	Output
FA2443-AL	200	162	0.217 (4–6) 0.020 (8–13) 0.020 (9–14) 0.515 (1–7)	5.9	6 : 1	6 : 1	6.0	1500	120 W

1. Inductance is for the primary, measured at 10 kHz, 0.1 Vrms, 0 Adc.

2. Peak primary current drawn at minimum input voltage.

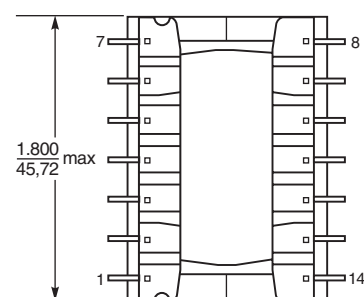
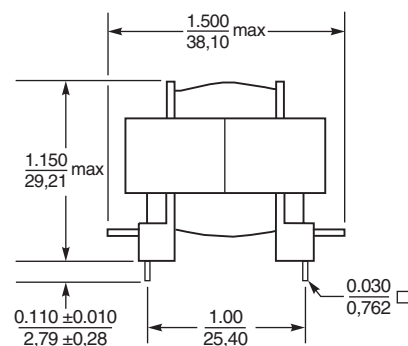
3. Leakage inductance is for the primary and is measured at 100 kHz, 0.1 Vrms with all other windings shorted.

4. Turns ratio for the secondary is with the windings connected in parallel

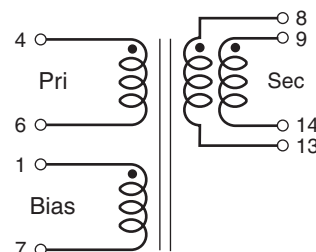
5. Isolation is from the primary to all other windings.

6. Electrical specifications at 25°C.

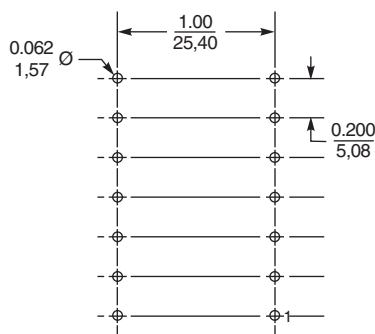
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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



Secondary windings to be connected in parallel on the PC board



Recommended PCB Layout

Coilcraft®

Specifications subject to change without notice.
Please check our website for latest information.

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1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>