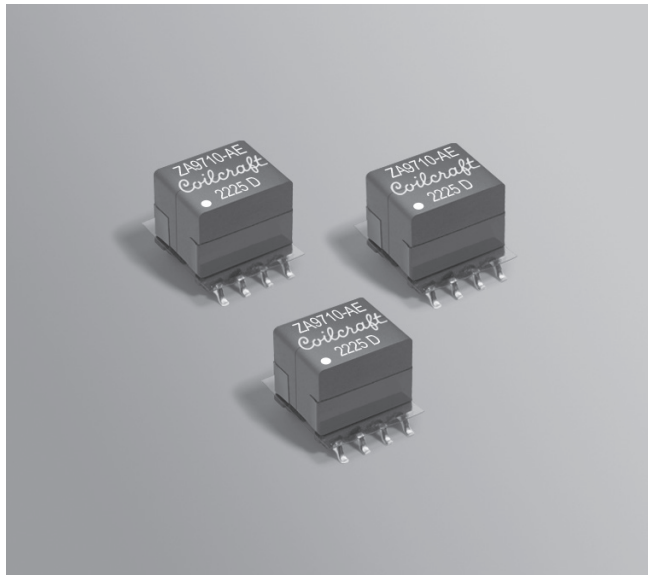




Flyback Transformer



- Designed for UCC5870-Q1 IGBT/SiC isolated gate driver for Texas Instruments
- Optimized for 300 kHz with 4.5 – 70 V input
- 3000 Vrms, one minute isolation (hipot) between primary and secondary
- AEC-Q200 Grade 1 (–40°C to +125°C)

Core material Ferrite

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

Weight 2.7 g

Ambient temperature –40°C to +125°C

Max Part Temperature +165°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)

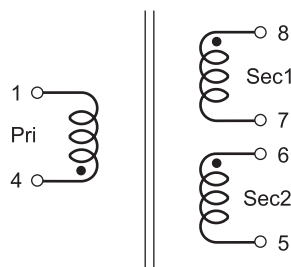
Packaging 350/13" reel Plastic tape: 24 mm wide, 0.50 mm thick, 16 mm pocket spacing, 10.4 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance at 0 A ² ±10% (µH)	Isat ³ (A)	DCR max (Ohms)			Leakage inductance max (µH) ⁴	Turns ratio			Isolation ⁵ (Vrms)	Power (W)	Output
			pri	sec1	sec2		pri	sec1	sec2			
ZA9710-AED	30	3.25	0.169	0.324	0.190	0.35	1	1	0.53	3000	4.6	15 V, 0.2 A (sec1) 8 V, 0.2 A (sec2)

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance is for the primary, measured at 300 kHz, 0.1 Vrms, 0 Adc.
 - DC current that causes the primary inductance drop 30% from its value without current.
 - Leakage inductance is for the primary winding with the secondary windings shorted.
 - 3000 Vrms, one minute isolation (hipot) between primary and secondary.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

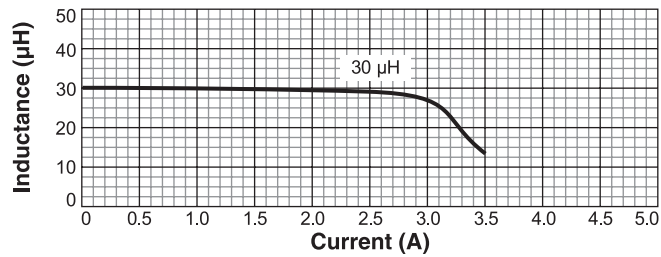
Schematic



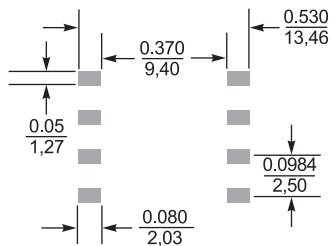
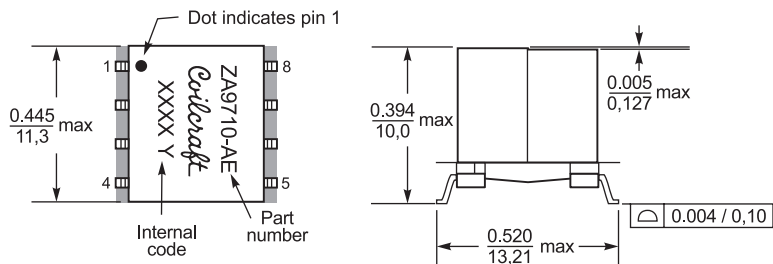


Flyback Transformer

L vs Current



Dimensions



Recommended

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