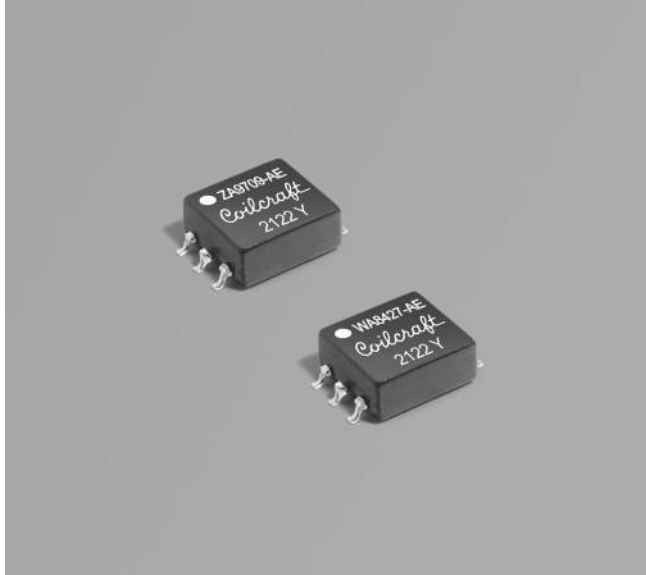




# Isolation Transformers



- Designed for use with SN6505B Push Pull Driver by Texas Instruments
- Low profile and center-tapped push-pull transformers for isolated power supply
- 2500 Vrms, one minute high isolation (hipot) winding to winding
- AEC-Q200 Grade 1 (–40°C to +125°C)

**Core material** Ferrite

**Environmental** RoHS compliant, halogen free

**Terminations** RoHS tin-silver-copper over tin over nickel over phosphor bronze.

**Weight** 0.60 – 0.65 g

**Ambient temperature** –40°C to +125°C

**Maximum part temperature** +165°C (ambient + temp rise)

**Storage temperature** Component: –40°C to +165°C.  
Tape and reel packaging: –40°C to +80°C

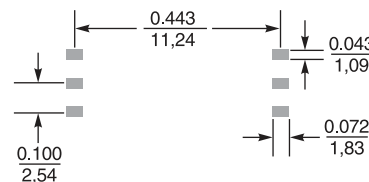
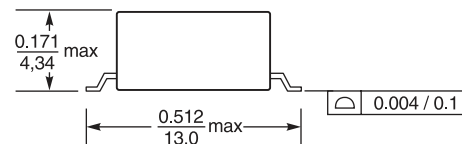
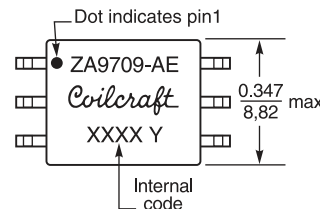
**Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCB\\_Washing.pdf](#).

Part number <sup>1</sup>	Input voltage (V)	L <sup>2</sup> at 0 A (μH)	Leakage L <sup>3</sup> max (μH)	DCR max (Ohms)		Turns ratio pri : sec	Volt-time product <sup>4</sup> (V-μsec)	Isolation <sup>5</sup> (Vrms)	Output
				pri	sec				
ZA9709-AED	3.3	145	0.25	0.076	0.128	1 : 1.67	8.64	2500	3.3 V
WA8427-AED	5.0	145	0.25	0.076	0.100	1 : 1.11	8.64	2500	5.0 V

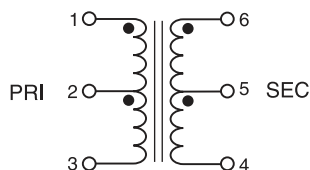
- Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape. (900 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
  - Inductance is for primary windings measured at 100 kHz, 0.01 Vrms, 0 Adc.
  - Leakage inductance is measured between pins 1 and 3 at 100 kHz, 0.1 Vrms with secondary pins shorted.
  - Volt-time product is for primary windings, between pin 1 and 3.
  - One minute isolation (hipot) primary windings to secondary windings.
  - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



**Recommended Land Pattern**

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

## Schematics



**Packaging** 900 per 13" reel Plastic tape: 24 mm wide, 0.4 mm thick, 16 mm pocket spacing, 4.6 mm pocket depth



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