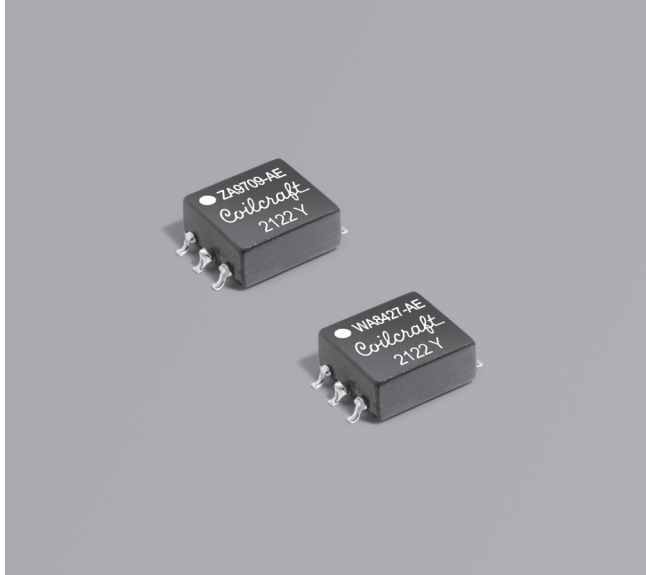




Isolation Transformers



- 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 phos 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

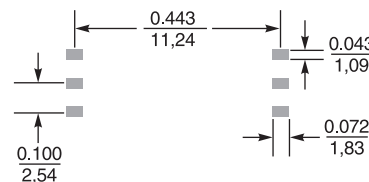
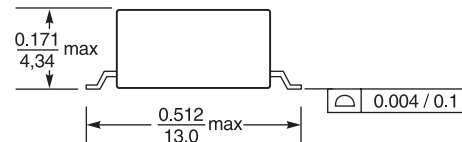
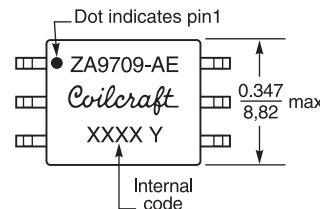
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

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 ¹ | Input voltage (V) | L ² at 0 A (μH) | Leakage L ³ max (μH) | DCR max (Ohms) | | Turns ratio pri : sec | Volt-time product ⁴ (V-μsec) | Isolation ⁵ (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 |

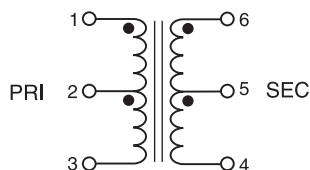
- Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape. (900 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance is for primary windings measured at 100 kHz, 0.01 Vrms, 0 Adc.
 - Leakage 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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