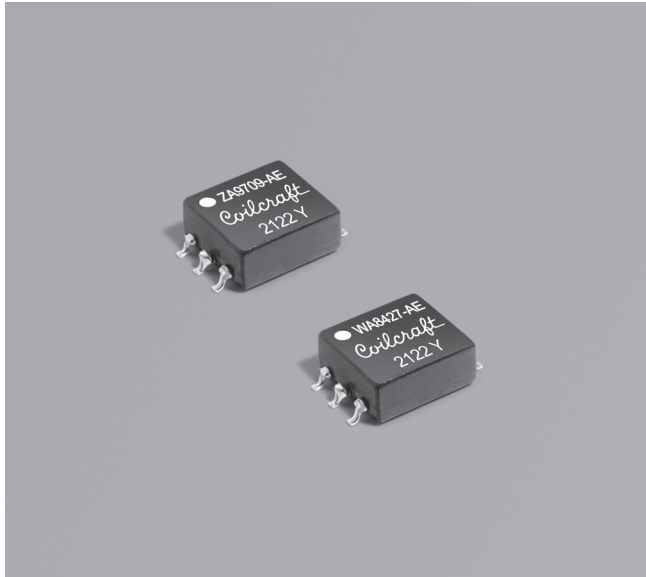


Isolation Transformers



- Designed for use with SN6505B Push Pull Driver by Texas Instruments
- Low profile and center-tapped push-pull transformers for isolated power supply
- Operates at 400 kHz with 2.25 – 5.5 V input
- 2500 Vrms, one minute high isolation (hipot) winding to winding
- AEC-Q200 qualified

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

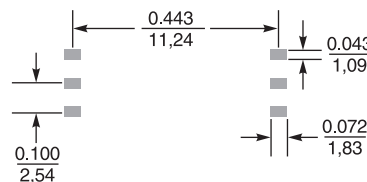
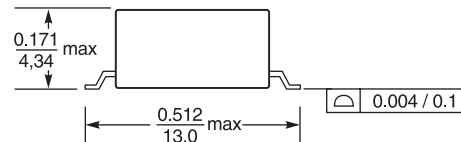
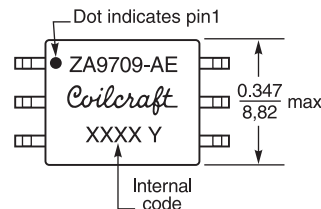
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

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.

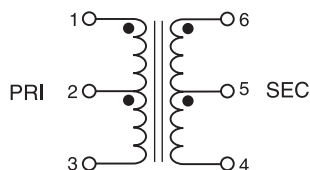


Recommended Land Pattern

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

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

Schematics



US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 1611-1 Revised 10/15/24

© Coilcraft Inc. 2024

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.