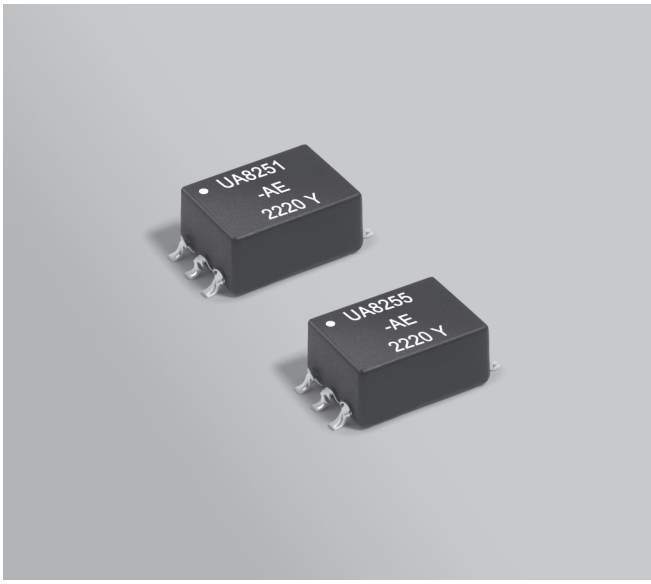
RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C

Isolation Transformers



- Developed for Texas Instruments SN6501 and SN6505B Push-Pull driver
- Low profile and center-tapped push-pull transformers for isolated power supply
- 2500 Vrms, one minute high isolation (hipot) winding to winding
- AEC-Q200 qualified

Core material Ferrite

Terminations RoHS tin-silver-copper over tin over nickel over phos bronze.

Weight 0.3 – 0.4 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)

Packaging 1000 per 13″ reel Plastic tape: 24 mm wide, 0.4 mm thick, 12 mm pocket spacing, 4.6 mm pocket depth

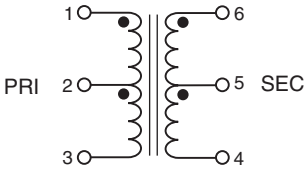
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

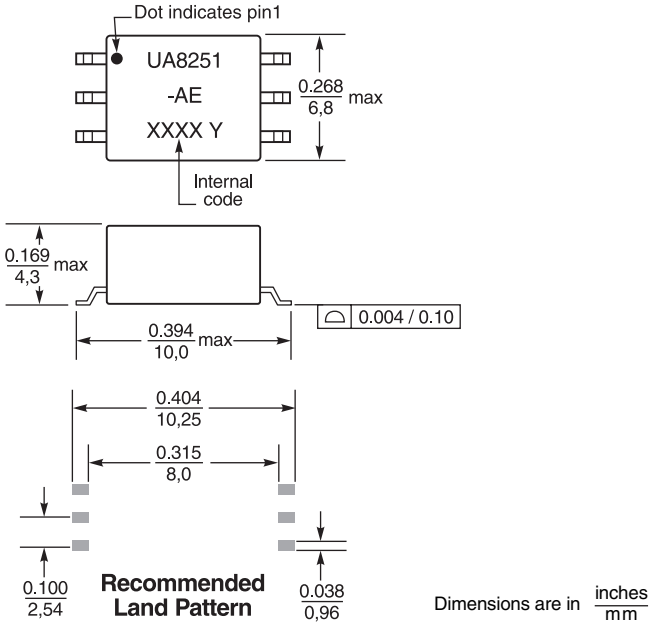
Part number[1]	Input voltage (V)	Lmin[2] at 0 A (µH)	Leakage L[3] max (µH)	DCR max (Ohms) pri	DCR max (Ohms) sec	Turns ratio pri:sec	Volt-time product[4] (V-µsec)	Isolation[5] (Vrms)	Output
UA8251-AED	3.3	1050	0.35	0.306	0.334	1:1.13	10.4	2500	3.3 V
UA8252-AED	5.0	900	0.35	0.320	0.360	1:1.076	11.5	2500	5 V
UA8253-AED	3.3	900	1.2	0.320	0.550	1:1.693	11.5	2500	5 V
UA8254-AED	3.3	900	1.0	0.320	0.440	1:1.308	11.5	2500	3.3 V
UA8255-AED	3.3	900	1.7	0.320	0.670	1:2.0	11.5	2500	5 V

1. **Packaging: D** = 13″ machine ready reel. EIA-481 embossed plastic tape. (1000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
2. Inductance is for primary windings measured between pin 1 and 3 at 10 kHz, 0.05 Vrms, 0 Adc.
3. Leakage inductance measured between pins 1 and 3 at 100 kHz, 0.1 Vrms with secondary pins shorted.
4. Volt-time product is for primary windings, between pin 1 and 3.
5. One minute isolation (hipot) primary windings to secondary windings.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Schematics





Coilcraft®
www.coilcraft.com

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

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