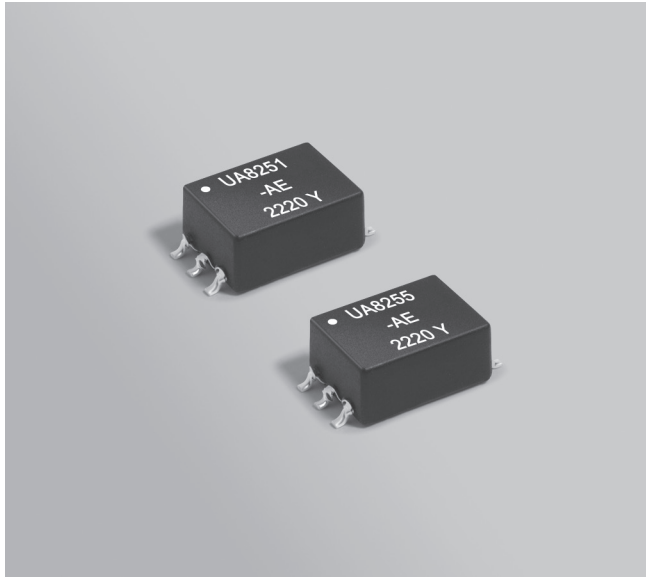


**NEW!**

# 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 Grade 1 (-40°C to +125°C)

**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 <sup>1</sup> | Input voltage (V) | Lmin <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   |                     |   |                               |        |
| 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    |

- 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).
  - Inductance is for primary windings measured at 10 kHz, 0.05 Vrms, 0 Adc.
  - Leakage inductance 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.

## Schematics

