

NEW!

Isolated Buck Transformer ZD2155-AE



- Optimized for 7 kW bidirectional AC-DC converter STEVAL-7BIDIRCB from STMicroelectronics
- Works with A/L6986I as gate driver auxiliary power supply solution
- Suitable for isolated IGBT/SiC gate driver
- AEC-Q200 qualified

Core material Ferrite

Environment RoHS compliant, halogen free

Terminations Tin-silver-copper over tin over nickel over phos bronze

Weight 2.73 g

Ambient temperature -40°C to +125°C

Maximum part temperature +165°C (Ambient + temp rise)

Storage temperature Component: -40°C to +125°C

Tape and reel packaging: -40°C to +80°C

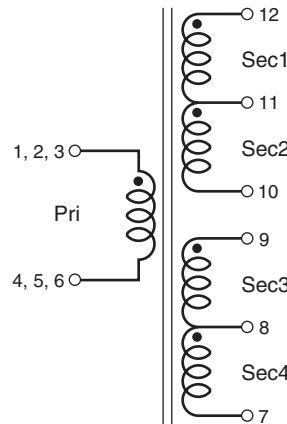
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Packaging 400 per 13" reel Plastic tape: 32 mm wide, 0.4 mm thick, 20 mm pocket spacing, 7.6 mm pocket depth

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

Part number ¹	L at 0 A ² ±10% (µH)	DCR max (Ohms)				Leakage L ³ max (µH)	Turns ratio				Isolation ⁴ (Vrms)	Isat ⁵ (A)	Output ⁶		
		pri	sec1	sec2	sec3		sec4	pri	sec1	sec2				sec3	sec4
ZD2155-AED	27	0.104	0.774	0.290	0.774	0.290	0.20	1	2.66	0.77	2.66	0.77	2000	2.5	18 V, 0.05 A 5 V, 0.05 A

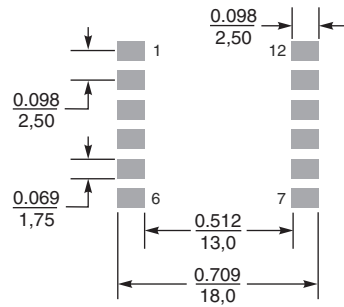
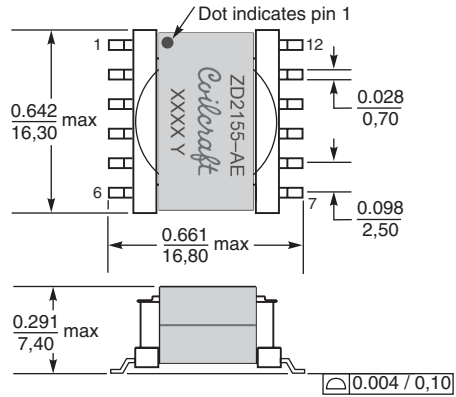
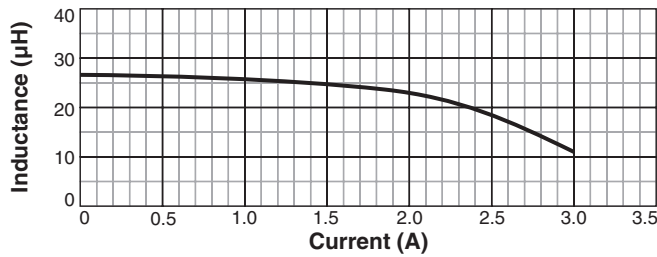
- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (400 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance is for the primary, measured at 250 kHz, 0.1 Vrms, 0 Adc.
 - Leakage inductance is for the primary with the secondary windings shorted.
 - 2000 Vrms, one minute isolation (hipot) between primary and secondary.
 - DC current that causes the primary inductance to drop 30% from its value without current.
 - 18 V, 0.05 A output is for Sec1 and Sec3. 5 V, 0.05 A output is for Sec2 and Sec4.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.





Flyback Transformer for ZD2155-AE

L vs Current



Recommended Land Pattern

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



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