



0.5-1.0 WATT SINGLE OUTPUT

Isolated, Miniature DIP Package
DC/DC Converters



FEATURES

- Internal SMD Construction
- Miniature DIP Package
- 1000 Vdc Input/
Output Isolation
- Low Profile Package
(0.50" x 0.40" x 0.25")

TWU0.5 & TWU1.0 Series

Specifications

All specifications are typical at nominal input, full load, and 25°C , unless otherwise noted.

INPUT

Voltage Range..... ±10%, See Table

Input Filter Internal Capacitor

OUTPUT

Voltage Accuracy.....±5% max

Line Regulation @ FL..... ±10% max

Load Regulation @ FL to 1/4L

3.3V and 5V Output.....15% max

9V/12V/15V Output.....10% max

Ripple Noise (20MHz Bw).....50mVp-p max

3.3V and 5V Output Type.....100mVp-p max

9V/12V/15V Output Type.....1% p-p max

Temperature Coefficient.....±0.3%/°C max

GENERAL

Isolation Voltage.....1000 Vdc

Isolation Resistance.....1000MOhms

Switching Frequency.....100KHz typ.

Short Circuit Protection.....Momentary

ENVIRONMENTAL

Operating Temperature Range.....0° to +71°C

Storage Temperature Range.....-40° to +105°C

Cooling.....Free Air Convection

Humidity Non-Condensing.....20 to 95% RH

PHYSICAL

Case Material.....Non-Conductive Black Plastic

Weight.....1.5 grams typ.

Dimensions.....0.50" x 0.40" x 0.25"

.....(12.70 x 10.16 x 6.28 mm)

Lead Temp.....1.5mm from case in 10sec. 105°C

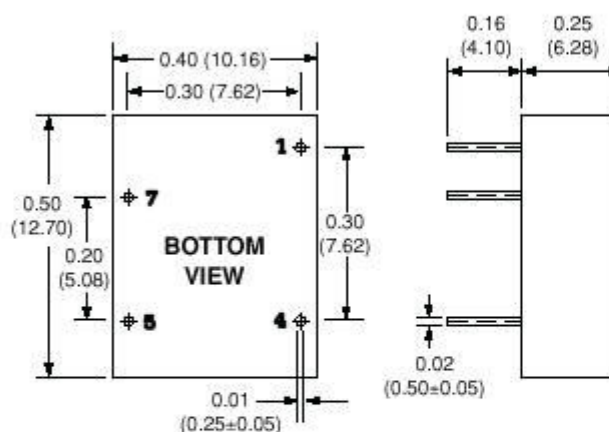
Selection Guide

(Continued)

SINGLE VOLTAGE OUTPUT	Input Voltage Nominal (Range) (Vdc)	Output Voltage (Vdc)	Output Current (mA)	Model Number	
	3.3	3.3	154	TWU0.5-3.3S3.3	
		5	200	TWU1-3.3S5	
		9	110	TWU1-3.3S9	
		12	84	TWU1-3.3S12	
		15	67	TWU1-3.3S15	
	5	3.3	154	TWU0.5-5S3.3	
		5	200	TWU1-5S5	
		9	110	TWU1-5S9	
		12	84	TWU1-5S12	
		15	67	TWU1-5S15	
	12	3.3	154	TWU0.5-12S3.3	
		5	200	TWU1-12S5	
		9	110	TWU1-12S9	
		12	84	TWU1-12S12	
		15	67	TWU1-12S15	
	24	3.3	154	TWU0.5-24S3.3	
		5	200	TWU1-24S5	
		9	110	TWU1-24S9	
		12	84	TWU1-24S12	
		15	67	TWU1-24S15	

Mechanical Specifications

I/O Connections	
Pin	SINGLE
1	-Vin
4	+Vin
5	+Vout
7	-Vout



All Dimensions are in inches (mm)