

**Single Output DC/DC Converter - Unregulated**

- > 2-Watt
- > Fixed Input Range
- > Efficiencies to 82% (typical)
- > No Heat Sink Required
- > No Other Components Required
- > 1,000 VDC Isolation

**ELECTRICAL SPECIFICATIONS**

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

**INPUT SPECIFICATIONS**

Input Voltage Range (DC)	5V nominal	4.5V to 5.5V
	10V nominal	9.0V to 11.0V
	12V nominal	10.8V to 13.2V
	24V nominal	21.6V to 26.4V
	48V nominal	43.2V to 52.8V

Input Filter

Capacitor

**OUTPUT SPECIFICATIONS**

Output Voltage Range (DC)	Single Output
	3.3V at 600mA
	5V at 400mA
	9V at 222mA
	12V at 167mA
	15V at 133mA
24V at 83mA	

Ripple and Noise, 20MHz BW

50mVp-p Typ

Temperature Coefficient

 $\pm 0.02\%/^{\circ}\text{C}$ 

Output Voltage Accuracy

 $\pm 5\%$ **GENERAL SPECIFICATIONS**

Switching Frequency	75KHZ Typ
Isolation Voltage	1000VDC
Isolation Resistance	$10^9$ Ohms
Isolation Capacitance	60pF
Short Circuit Protection	1 second

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-55°C to +125°C
Cooling	Free-air Convection

**PHYSICAL SPECIFICATIONS**

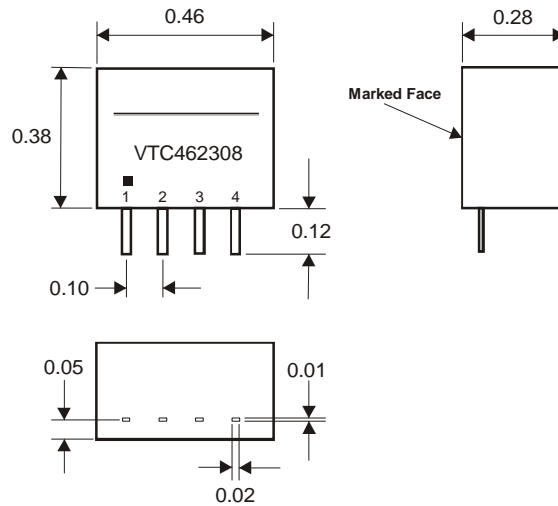
Case Material	Plastic UL94-V0
Dimensions (length x width x height)	Mini-SIP: 0.46 x 0.28 x 0.38(inches)

**PART NUMBERS**

Vin	Part Number	Vin	Part Number
5V	VTC462286	10V	VTC462292
	VTC462287		VTC462293
	VTC462288		VTC462294
	VTC462289		
	VTC462290		
	VTC462291		
12V	VTC462295		
	VTC462296		
	VTC462297		
	VTC462298		
	VTC462299		
	VTC462300		
24V	VTC462301		
	VTC462302		
	VTC462303		
	VTC462304		
	VTC462305		
	VTC462306		
48V	VTC462307		
	VTC462308		
	VTC462309		
	VTC462310		
	VTC462311		
	VTC462312		

**PACKAGE DRAWING**

All dimensions in inches



**PIN CONNECTIONS**

PIN	Single Output
1	-Vin
2	+Vin
3	-Vout
4	+Vout