

**Features**

- 3WATT DIL PACKAGE
- 4:1 WIDE INPUT VOLTAGES
- EFFICIENCY TO 82%
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- REGULATED OUTPUT TYPES



**3 Watt DC/DC Converter**

WIDE INPUT VOLTAGE RANGE  
3 WATT DC-DC CONVERTER

**Input Specifications**

Input Voltage	:24Vdc
Input Voltage Range	:9-36Vdc

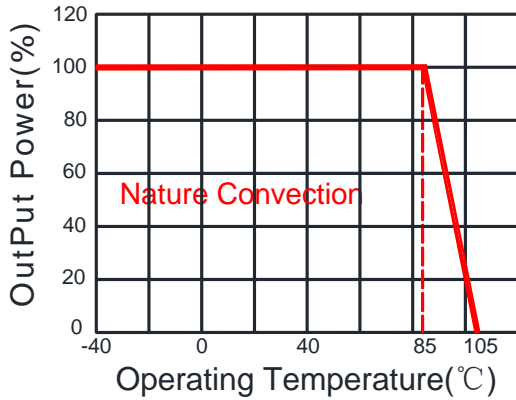
**Output Specifications**

Output Voltage	:5Vdc	
Output Voltage Accuracy	:±2%	@Vout=4.9-5.1Vdc@Vin=9-36Vdc
Output Current	:600mA	
Efficiency	:82% TYP	
Ripple / Noise	:100mVp-p MAX	@20MHz Bandwidth
Short Circuit Protection	:Continuous	@Automatics recovery
Line Regulation	:±0.5% MAX	@LL to HL at Full Load
Load Regulation	:±1.0% MAX	@0% to 100%FL
Capacitive Load	:4700µF MAX	

**General Specifications**

Operating Temperature Range	: -40°C ~ +85°C	
Storage Temperature	: -40°C ~ +100°C	
Switching Frequency	: 330KHz TYP	
Humidity	: 95% MAX	
Isolation Voltage	: 1500Vdc	@ Input to Output ( 60sec/0.5mA )
Isolation Resistance	: 1000MΩ MIN	@ 500Vdc
Cooling	: Free air convection	
MTBF	: >1500000 Hours	MIL-HDBK-217F@25°C, Ground Benign.
Case Material	: Nickel Coated Copper With Non-Conductive Base	
Weight	: 16.8g TYP	

## Temperature Derating Graph

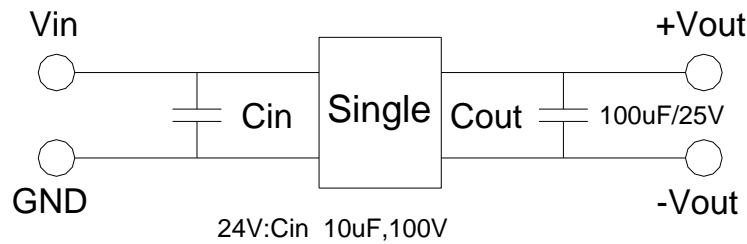


## Part Number

**68DC - 24 S 05 R 3**  
**A B C D E F**

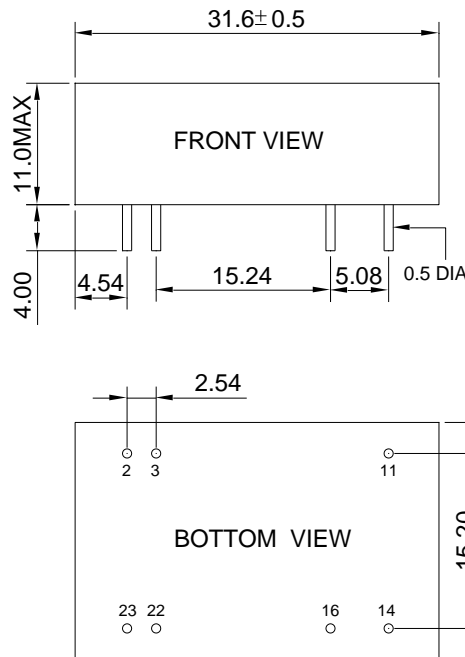
- A: Series
- B: Input Voltage
- C: Single Output
- D: Output Voltage
- E: Regulated(R)
- F: Output Power

## Recommended Test Circuit



To make sure the product work at perfect operation status with full loading external capacitor is necessary and it is recommended to use high frequency low resistance electrolytic capacitor.

## Outline Dimensions



UNIT: mm Unless otherwise specified, all tolerances are  $\pm 0.25$

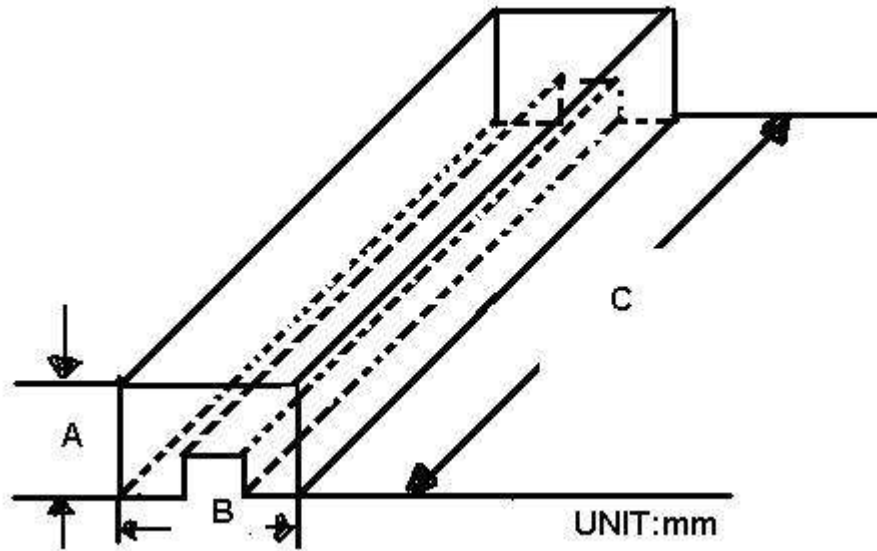
PIN	2	3	11	14	16	22	23
<b>Single</b>	-Vin	-Vin	NC	+Vout	-Vout	+Vin	+Vin

**Packing Information:**

Weight----- 16.8grams/pcs

TUBE-----15pcs

Weight: 296g per tube



Size(mm)		
A	B	C
18.71	23.00	522

Outer carton unit: 540pcs/36Tube/box

Weight: 11.1kg per carton

