

**Features**

- 2WATT DIL PACKAGE
- 2:1 WIDE INPUT VOLTAGES
- EFFICIENCY TO 78%
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- REGULATED OUTPUT TYPES



**2 Watt DC/DC  
Converter**

WIDE INPUT VOLTAGE RANGE  
2 WATT DC-DC CONVERTER

**Input Specifications**

Input Voltage	:24Vdc
Input Voltage Range	:18-36Vdc

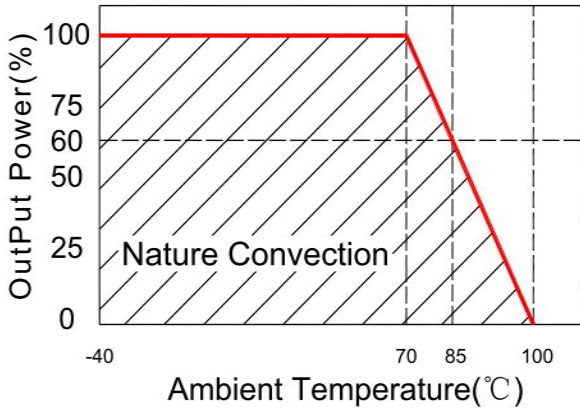
**Output Specifications**

Output Voltage	:5Vdc	
Output Voltage Accuracy	:±2%	@Vout=4.9-5.1Vdc@Vin=18-36Vdc
Output Current	:400mA	
Efficiency	:78% 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	:±0.8% MAX	@0% to 100%FL

**General Specifications**

Operating Temperature Range	:-40°C ~ +85°C	
Storage Temperature	:-40°C ~ +100°C	
Switching Frequency	:100KHz 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	:DAP	
Weight	:5.2g TYP	

**Temperature Derating Graph**

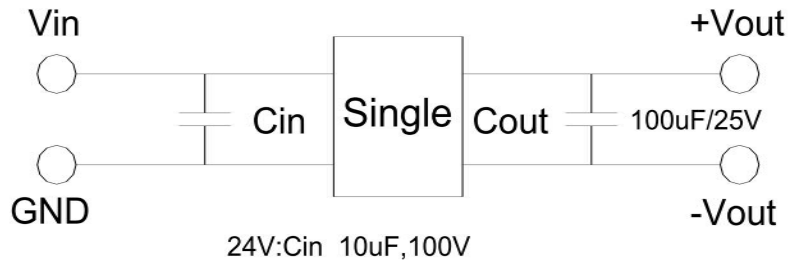


**Part Number**

29D - 24 S 05 R  
 A B C D E

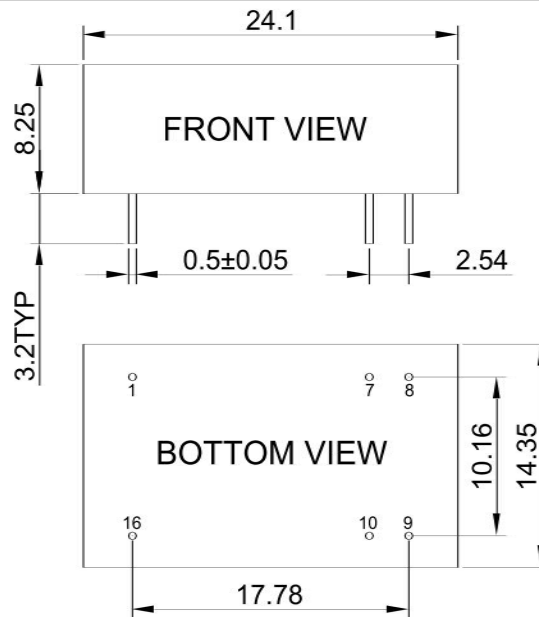
A:Series  
 B:Input Voltage  
 C:Single Output  
 D:Output Voltage  
 E:Regulated(R)

**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	1	7	8	9	10	16
Single	-Vin	NC	NC	+Vout	-Vout	+Vin