FEATURES:

- 3 Watt SIP Package
- 2:1 Wide Input Voltages
- Efficiency to 81%
- 100% Burned In
- UL 94V-0 Package Material
- Custom Solutions Available
- Regulated Output Types
- UL Recognized
- RoHS Compliant

ADAM TECH

3 Watt DC-DC Converter

RD7-24D103R

Wide Input Voltage Range
3 Watt DC/DC Converter

Input Specifications

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

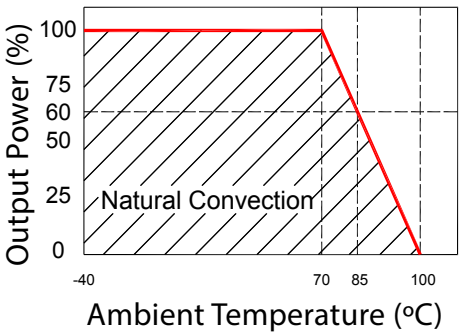
Output Specifications

Output Voltage:	±10Vdc	
Output Voltage Accuracy:	±2%	@Vout=±9.8~±10.2Vdc@Vin=18-36Vdc
Output Current:	±150mA	
Efficiency:	81% TYP	
Ripple / Noise:	100mVp-p MAX	@20MHz Band width
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

General Specifications

Operating Temperature Range:	-40°C ~ +85°C	
Storage Temperature:	-40°C ~ +100°C	
Switching Frequency:	200KHz TYP	
Humidity:	95% MAX	
Isolation Voltage:	1500Vdc	@Input to Output (60 sec/ 0.5mA)
Isolation Resistance:	1000MΩ MIN	@ 500Vdc
Cooling:	Free air convection	
MTBF:	>1,500,000 Hours	MIL-HDBK-217F@25°C, Ground Benign
Case Material:	DAP	
Weight:	4.5g TYP	
Remote Control:		
Turn On	0 ~ 0.8Vdc or open circuit	
Turn Off	2.5 ~ 12Vdc	

Temperature Derating Graph

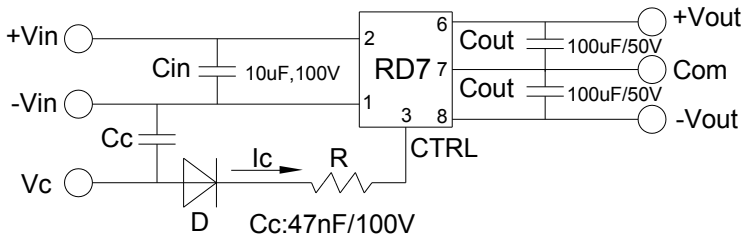


Part Number

RD7 – 24 D 10 3 R
A B C D E F

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

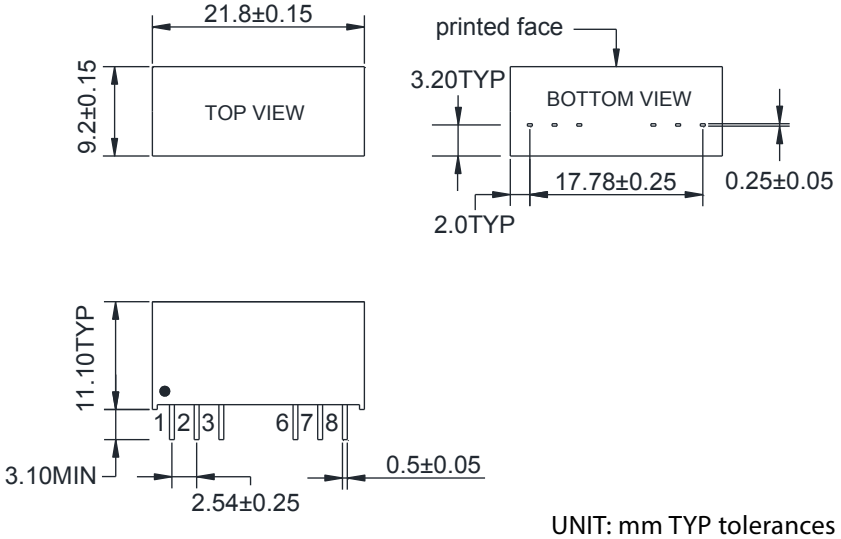
Recommended Test Circuit



1. When open or high impedance, the converter works well; when this pin is 'high', the converter shuts down. It should be noted that the input current should be between 5-10mA, exceeding the maximum 20mA will cause permanent damage to the converter.

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

Outline Dimensions

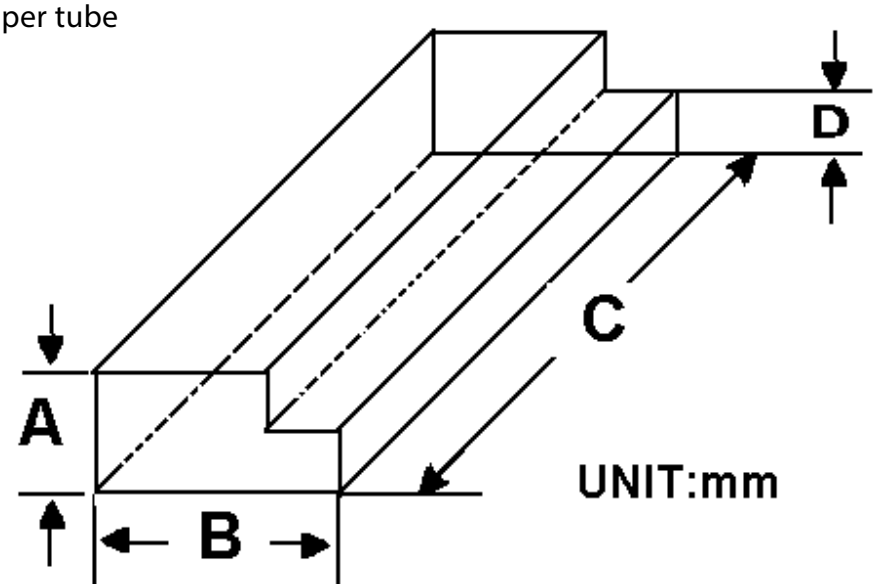


UNIT: mm TYP tolerances are ±0.50

Pin	1	2	3	6	7	8
Dual	-Vin	+Vin	Ctrl-Control input can (can be left open)	+Vout	COM	-Vout

Packaging Information

Weight: 4.5 grams/pcs
TUBE: 22 pcs
Weight: 134.5g per tube



Size (mm)			
A	B	C	D
12.0	28.55	550	6.00

Outer carton unit: 1760pcs/80Tubes/box
Weight: 11.8 kg per carton

