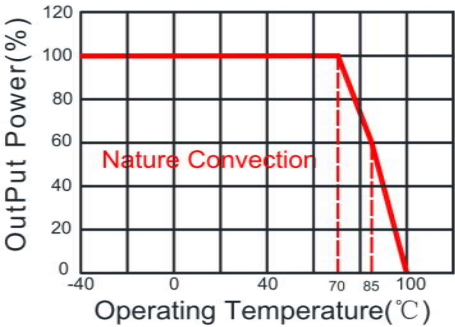


Features		RoHS Compliant 	 2 Watt DC/DC Converter
2WATT SIP PACKAGE 2:1 WIDE INPUT VOLTAGES EFFICIENCY TO 78% 100% BURNED IN UL 94V-0 PACKAGE MATERIAL CUSTOM SOLUTIONS AVAILABLE REGULATED OUTPUT TYPES	WIDE INPUT VOLTAGE RANGE 2 WATT DC-DC CONVERTER		
Input Specifications			
Input Voltage	:24Vdc		
Input Voltage Range	:18-36Vdc		
Output Specifications			
Output Voltage	:± 12Vdc		
Output Voltage Accuracy	:± 2%	@Vout=±11.76~±12.24Vdc@Vin=18-36Vdc	
Output Current	:± 84mA		
Efficiency	:78% TYP		
Ripple / Noise	:100mVp-p MAX	@20MHz Bandwidth	
Short Circuit Protection	:Continuous		
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℃ ~ +85℃		
Storage Temperature	:-40℃ ~ +125℃		
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	:>1000000 Hours	MIL-HDBK-217F@25℃,Ground Benign.	
Case Material	:DAP		
Weight	:3.9g TYP		

Temperature Derating Graph

Part Number

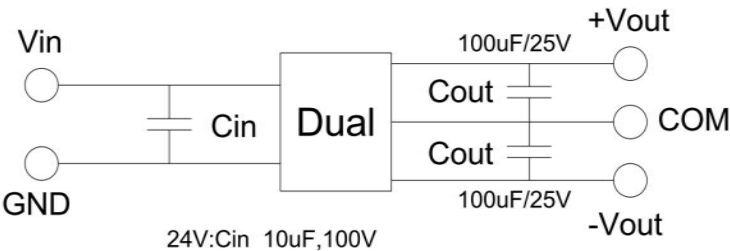


28D - 24 D 12 R

A B C D E

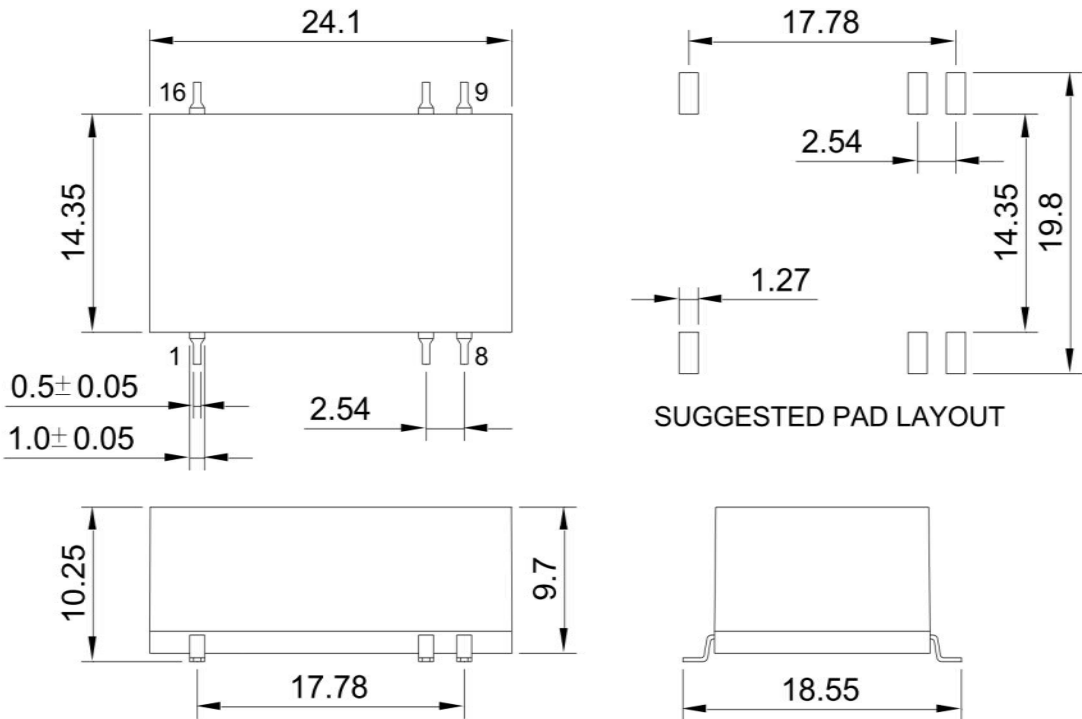
A:Series
B:Input Voltage
C: Dual Output
D:Output Voltage
E:Regulated(R)

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



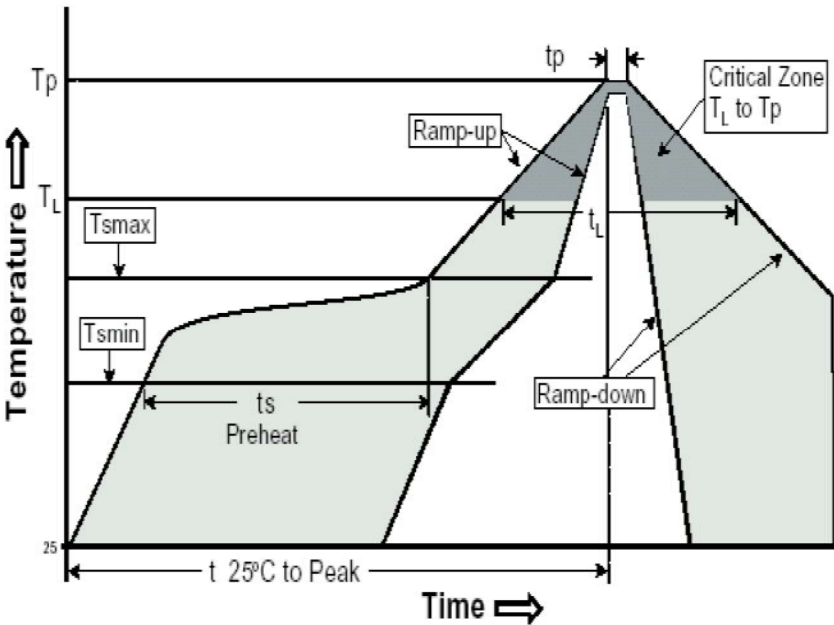
UNIT:mm Unless otherwise specified,all tolerances are ±0.25

PIN	1	7	8	9	10	16
Dual	-Vin	NC	COM	+Vout	-Vout	+Vin

RoHS compliant type

Our RoHS parts just can withstand IR Reflow peak temperature: 240degC+/-5degC as the following profile:

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (Ts _{max} to Tp)	3 ⁰ C /second max.
Preheat -Temperature Min (Ts _{min}) -Temperature Max (Ts _{max}) -Time (ts _{min} to ts _{max})	150 ⁰ C 200 ⁰ C 60-180 seconds
Time maintained above: -Temperature (T _L) -Time (t _L)	217 ⁰ C 60-150 seconds
Peak/Classification Temperature (Tp)	240±5 ⁰ C
Time within 5 ⁰ C of actual Peak Temperature (tp)	20-40 seconds
Ramp-Down Rate	6 ⁰ C/seconds max
Time 25 ⁰ C to Peak Temperature	6 minutes max.



Packing Information:

- 1.Weight-----3.9 grams/pcs
- 2.Tape & Reel----- 200pcs
3. outer carton unit: 1200pcs/box
4. outer carton unit: 6T&R/box
- 5.Weight: 7.8kg per carton

