

Features

- 2.4WATT SIP PACKAGE
- EFFICIENCY TO 82%
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- UNREGULATED OUTPUT TYPES



**2.4 Watt DC/DC
Converter**

**2.4 Watt Dual O/P
Isolated DC-DC Converter**

Input Specifications

Input Voltage	:24Vdc
Input Voltage Range	:±10%

Output Specifications

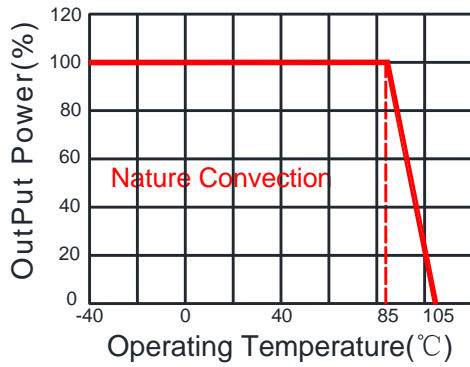
Output Voltage V_{O1}	:15Vdc	@ $I_{O1}=100mA$	@ $V_{out}=14.25-15.75Vdc@V_{in}=24Vdc$
Output Voltage V_{O2}	:-8.82Vdc	@ $I_{O2}=100mA$	@ $V_{out}=-8.37~-9.27Vdc@V_{in}=24Vdc$
Efficiency	:82% TYP		
Ripple / Noise	:150mVp-p MAX		@20MHz Bandwidth
Short Circuit Protection	: Short term		
Line Regulation	:±1.2% TYP		@ For 1.0% OF V_{in}
Load Regulation	:±15% MAX		@10% to 100% full load

General Specifications

Operating Temperature Range	:-40°C ~ +105°C	
Storage Temperature	:-55°C ~ +125°C	
Switching Frequency	:100KHz TYP	
Isolation capacitor	:5pF TYP	@100kHz/0.1V
Humidity	:95% MAX	
Isolation Voltage	:5000Vac	@Input to Output (60sec/1.0mA)
Isolation Resistance	:1000MΩ MIN	@ 500Vdc
Cooling	:Free air convection	
MTBF	:>3500000 Hours	MIL-HDBK-217F@25°C,Ground Benign.
Case Material	:DAP	
Weight	:4.0g TYP	

Temperature Derating Graph

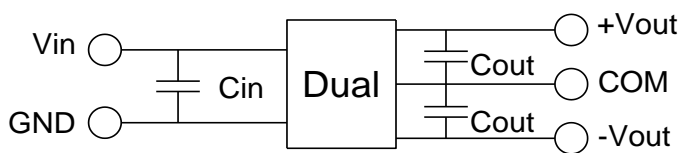
Part Number



12D1B - 24 D 1509 N 2.4W
 A B C D E F

A:Series
 B:Input Voltage
 C:Dual Output
 D:Output Voltage
 E:Unregulated(N)
 F:Output Power

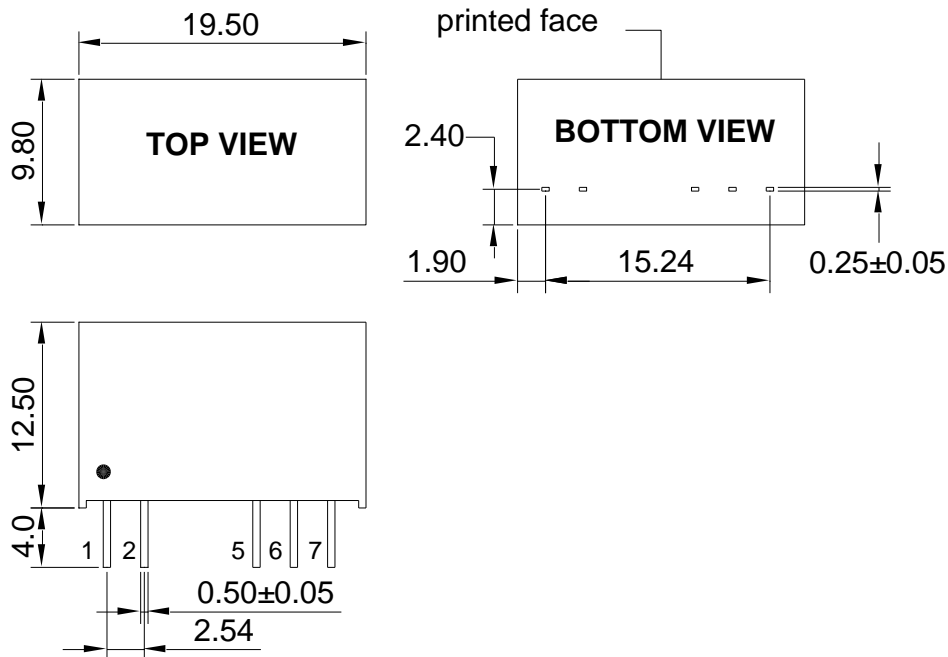
Recommended Test Circuit



Vin	Cin	Dual Vout	Cout
5Vdc	4.7μF/25V	15Vdc -9Vdc	1μF/25V 1μF/25V

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

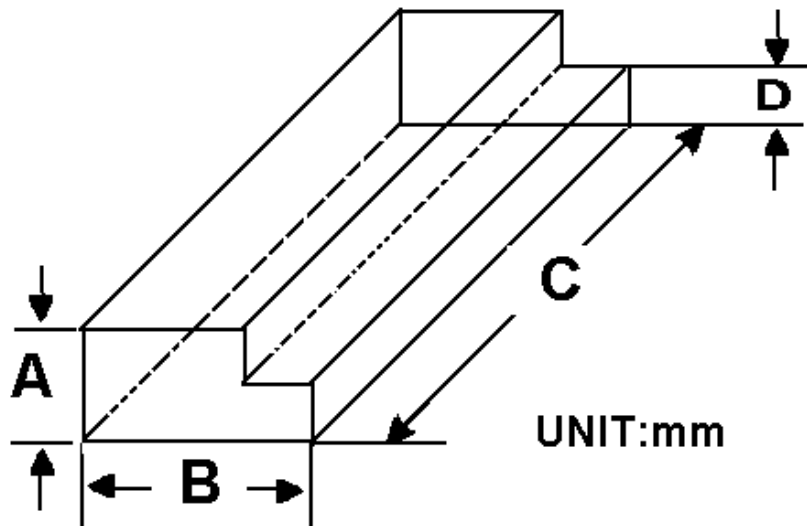
PIN	1	2	5	6	7
DUAL	+Vin	-Vin	-Vout	COM	+Vout

Packing Information:

Weight----- 4.0grams/pcs

TUBE-----25pcs

Weight: 135.5g per tube



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

Outer carton unit: 2400pcs/96Tube/box

Weight: 14.0kg per carton

