

-Features

- 1WATT SIP PACKAGE
- EFFICIENCY TO 83%
- 100% BURNED IN
- No-load Input Current as Low as 5mA
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- UNREGULATED OUTPUT TYPES



**1 Watt DC/DC
Converter**

1 Watt Dual O/P
Isolated DC-DC Converter

Input Specifications

Input Voltage	:5Vdc
Input Voltage Range	: $\pm 10\%$

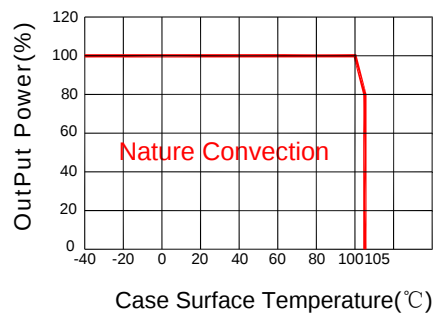
Output Specifications

Output Voltage	: ± 9 Vdc	
Output Voltage Accuracy	: $\pm 5\%$	@Vout= $\pm 8.55 \sim \pm 9.45$ Vdc@Vin=5Vdc
Output Current	: ± 56 mA	
Efficiency	:83% TYP	
Ripple / Noise	:30mVp-p TYP, 75mVp-p MAX	@20MHz Bandwidth
Short Circuit Protection	: Continuous	
Line Regulation	: $\pm 1.2\%$ TYP	@For 1.0% OF Vin
Load Regulation	: $\pm 8\%$ TYP, $\pm 10\%$ MAX	@10% to 100% full load
Capacitive Load	: ± 470 uF MAX	

General Specifications

Operating Temperature Range	: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$	
Storage Temperature	: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	
Switching Frequency	:215 or 370KHz TYP	
Humidity	:95% MAX	
Isolation Voltage	:1500Vdc	@Input to Output (60sec/0.5mA)
Isolation Resistance	:1000M Ω MIN	@ 500Vdc
Cooling	:Free air convection	
MTBF	:>3500000 Hours	MIL-HDBK-217F@25 $^{\circ}\text{C}$,Ground Benign.
Case Material	:DAP	
Weight	:2.1 g TYP	
EMI	CE	CISPR32/EN55032 CLASS B (see Fig. 1 for recommended circuit)
	RE	CISPR32/EN55032 CLASS B (see Fig. 1 for recommended circuit)
EMS	ESD	IEC/EN61000-4-2 Air ± 8 kV , Contact ± 4 kV perf. Criteria B

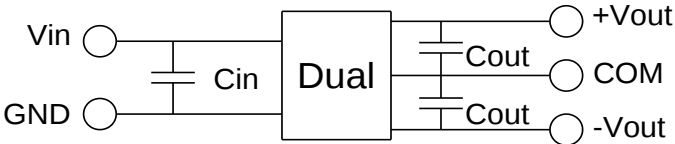
Temperature Derating Graph



Part Number

14DC - 05 D 09 N P
A B C D E F
A:Series
B:Input Voltage
C: Dual Output
D: Output Voltage
E:Unregulated(N)
F:Protection

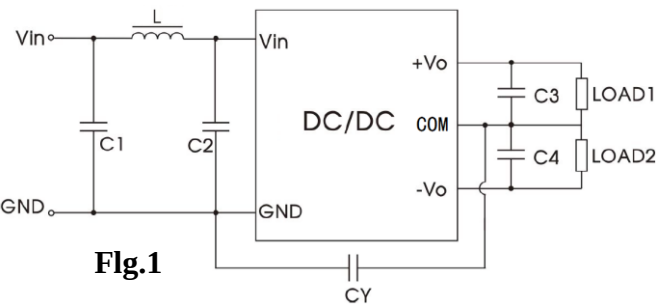
Recommended Test Circuit



Vin	Cin	Dual Vout	Cout
5Vdc	4.7μF/25V	±9Vdc	±2.2μF/16V

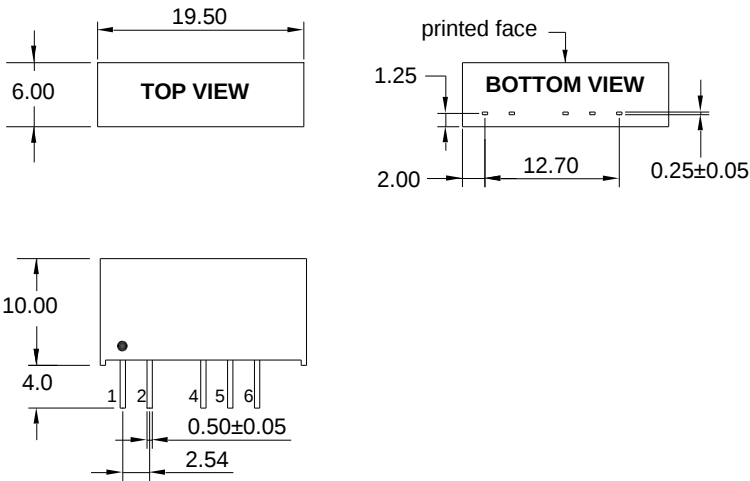
To make sure the product work at perfect operation status with full loading external capacitor is necessary and it is recommended to use high frequency low resistance electrolytic capacitor.

EMC (CLASS B) compliance circuit



EMC recommended circuit value table		
EMI	C1	4.7μF /50V
	C2	4.7μF /50V
	CY	1nF/4kV
	C3,C4	Recommended Test Circuit
	L	6.8μH

Outline Dimensions



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

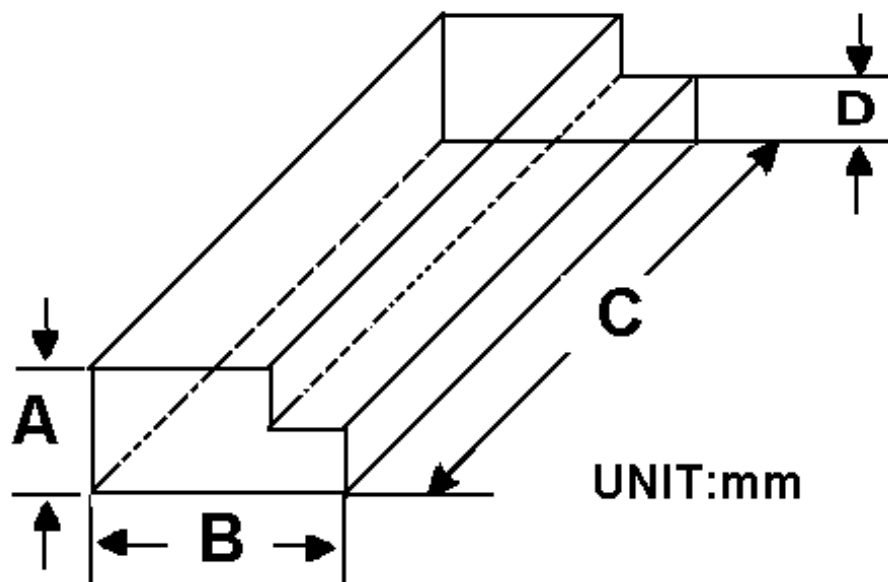
PIN	1	2	4	5	6
DUAL	+Vin	-Vin	-Vout	COM	+Vout

Packing Information:

Weight----- 2.1grams/pcs

TUBE-----25pcs

Weight: 73g per tube



Size(mm)			
A	B	C	D
9.50	16.50	522	5.00

Outer carton unit: 2500pcs/100Tube/box

Weight: 7.5kg per carton

