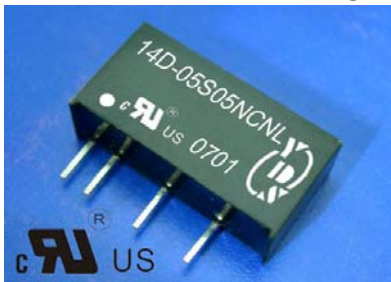




1000Vdc Single & Dual Output 1 Watt Dc-Dc Converter



FEATURES:

- 7PIN SIP Package
- 1000Vdc Isolation
- Unregulated Output Types
- Recognized By UL 1950
- Operating Temperature:-40°C TO +85°C
- MTBF:>3,500,000 hrs



Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Voltage	Output Current	Efficiency	Package Style
	Vdc	mA	%TYP	
14D-XXS05NNL	5	200	70	1
14D-XXS09NNL	9	112	75	1
14D-XXS12NNL	12	84	75	1
14D-XXS15NNL	15	67	75	1
14D-XXD05NNL	±5	±100	70	1
14D-XXD09NNL	±9	±56	75	1
14D-XXD12NNL	±12	±42	75	1
14D-XXD15NNL	±15	±34	75	1
14D-XXS05N2NL	5	200	70	2
14D-XXS09N2NL	9	112	75	2
14D-XXS12N2NL	12	84	75	2
14D-XXS15N2NL	15	67	75	2
14D-XXD05N2NL	±5	±100	70	2
14D-XXD09N2NL	±9	±56	75	2
14D-XXD12N2NL	±12	±42	75	2
14D-XXD15N2NL	±15	±34	75	2

Note:1. Over 24Vdc input voltage, using the 2nd package 2. "XX" Is Input Voltage:05=5Vdc,12=12Vdc,15=15Vdc,24=24Vdc,48=48Vdc

Input Specifications

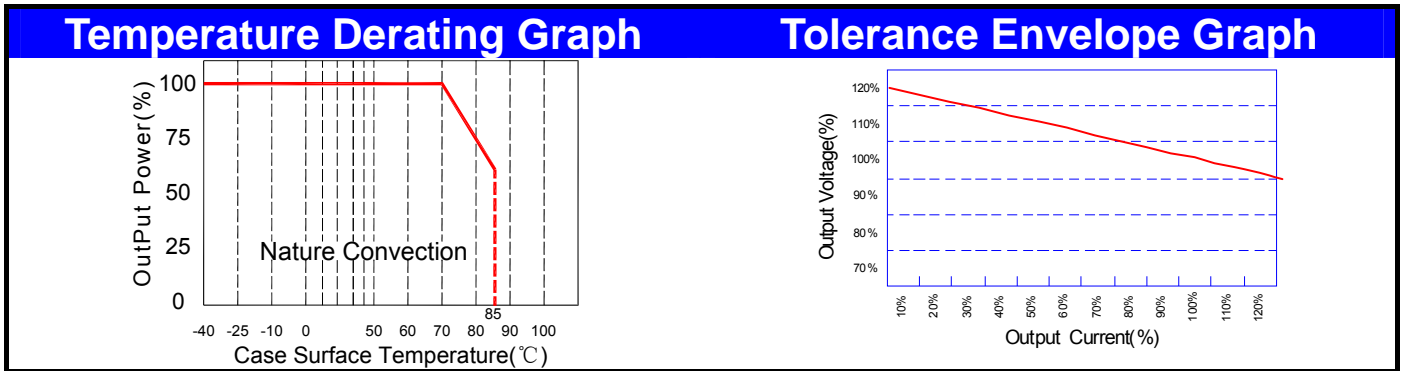
Parameters	Conditions	Min	Typ	Max	Units
Voltage Types				±10	%
Filter	Capacitor				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				±5	%
Short Circuit	Short Term		1 Sec		
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	3.3V & 5V (10% To 100% F.L.)			15	%
Load Regulation	9V,12V & 15V (10% To 100% F.L.)			10	%
Ripple & Noise	Input:3.3V& 48V BW=DC To 20MHz			150	mVp-p
Ripple & Noise	Input:5V,12V,15V & 24V BW=DC To 20MHz			100	mVp-p
Transient response setting time	50% load step change		350		us

General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switingfrequency			100		KHz
Operating Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
Weight			2.1		g
Dimensions	Package 1	19.5x6.0x10.0			mm
Dimensions	Package 2	19.5x7.1x10.0			mm



Recommended Test Circuit

Single

5V :Cin 4.7uF,25V 5V :Cout 10uF,25V
 12V:Cin 2.2uF,25V 9V :Cout 4.7uF,25V
 15V:Cin 1uF,50V 12V:Cout 2.2uF,25V
 24V:Cin 1uF,50V 15V:Cout 1uF,50V
 48V:Cin 1uF,100V

Dual

5V :Cin 4.7uF,25V 5V :Cout 10uF,25V
 12V:Cin 2.2uF,25V 9V :Cout 4.7uF,25V
 15V:Cin 1uF,50V 12V:Cout 2.2uF,25V
 24V:Cin 1uF,50V 15V:Cout 1uF,50V
 48V:Cin 1uF,100V

Part Number

14D - 05 S 05 N 2 C NL

A B C D E F G H

A:Series
 B:Input Voltage
 C:Single(S)Dual(D)
 D:Output Voltage
 E:Unregulated(N)
 F:Package
 G:Operating Temperature
 H:RoHS Version

Markings and Dimensions

1

19.5±0.25

6.00±0.25

TOP VIEW

10.00±0.25

4.0±0.25

0.50±0.05

1 2 4 5 6

0.50TYP

printed face

1.25TYP

BOTTOM VIEW

2.00TYP

12.70±0.25

0.25±0.05

2

19.5±0.25

7.10±0.25

TOP VIEW

10.00±0.25

4.0±0.25

0.50±0.05

1 2 4 5 6

0.50TYP

printed face

1.25TYP

BOTTOM VIEW

2.00TYP

12.70±0.25

0.25±0.05

UNIT : mm TYP tolerances are ±0.5

Packaging

UNIT:mm

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

PIN Connection

Pin	1	2	4	5	6
Single	+Vin	-Vin	-Vout	NC	+Vout
Dual	+Vin	-Vin	-Vout	Common	+Vout