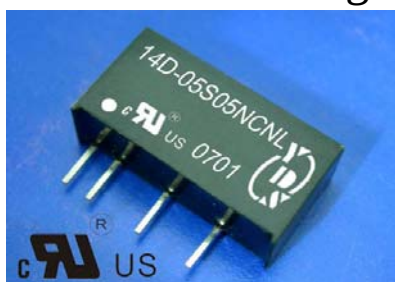




1000Vdc Single & Dual Output 1 Watt Dc-Dc Converter



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

RoHS
Compliant

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

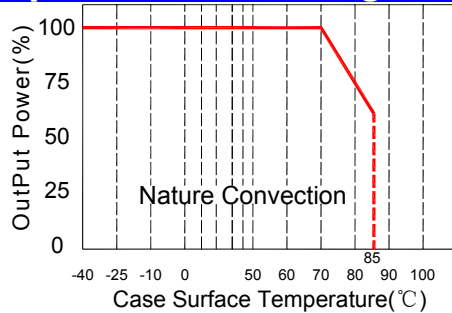
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				± 5	%
Short Circuit	Short Term		1 Sec		
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	3.3V & 5V (10% To 100% F.L.)			15	%
Load Regulation	9V,12V & 15V (10% To 100% F.L.)			10	%
Ripple & Noise	Input:3.3V& 48V BW=DC To 20MHz			150	mVp-p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

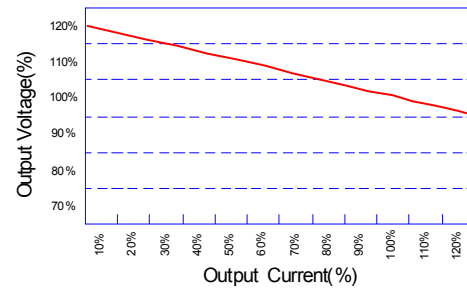
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switngfrequency			100		KHz
Operating Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
Weight			2.1		g
Dimensions	Package 1	19.5x6.0x10.0			mm
Dimensions	Package 2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



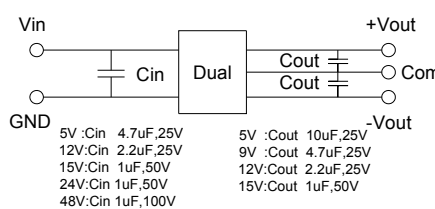
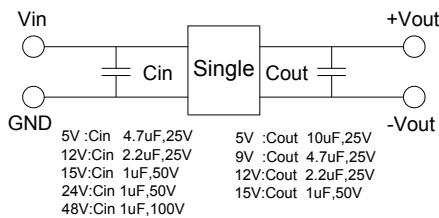
Temperature Derating Graph



Tolerance Envelope Graph



Recommended Test Circuit



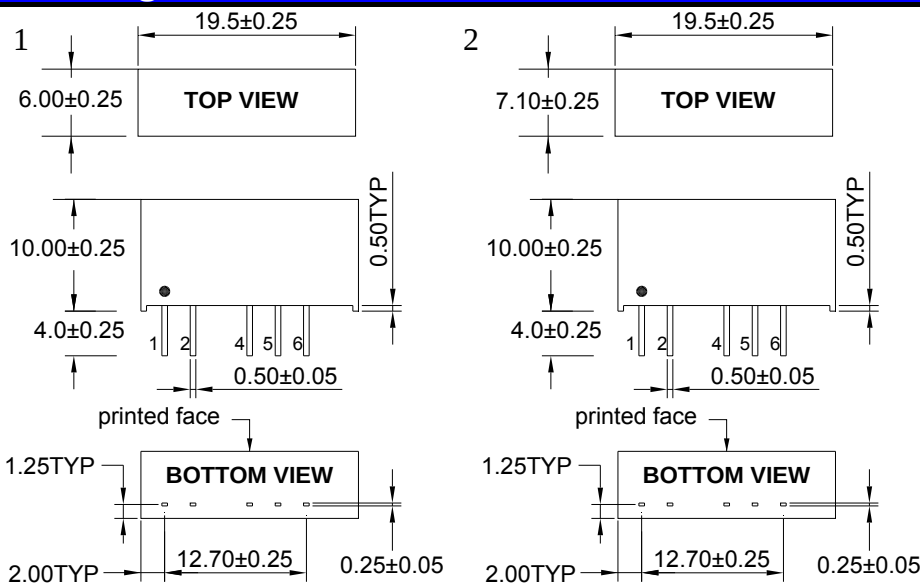
Part Number

14D - 05 S 05 N 2 C NL
A B C D E F G H

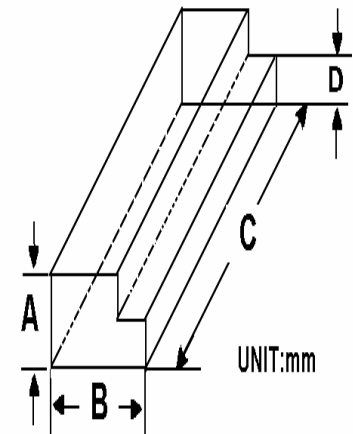
A:Series
B:Input Voltage
C:Single(S)Dual(D)
D:Output Voltage
E:Unregulated(N)
F:Package
G:Operating Temperature
H:RoHS Version

Markings and Dimensions

Packaging



UNIT : mm TYP tolerances are ±0.5



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