



Yuan Dean Scientific CO.,LTD 13D-2W SERIES

1000vdc Single Output 2 Watt Dc-Dc Converter



FEATURES:

- 4PIN SIP Package.
- 1000Vdc Isolation.
- Unregulated Output Types.
- UL 94V-0 Package Material.
- 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	Nominal Input Voltage	Output Voltage	Output Current	Ripple And Noise	Input Current At Rated Load	Efficiency	Isolation Capacitance
	Vdc	Vdc	mA	mVp-p	mA	%	pF
13D-05S05N2WNL	5	5	400	96	513	75	19
13D-05S09N2WNL	5	9	222	67	492	80	27
13D-05S12N2WNL	5	12	167	59	479	85	32
13D-05S15N2WNL	5	15	133	53	481	85	27
13D-12S05N2WNL	12	5	400	76	207	80	28
13D-12S09N2WNL	12	9	222	63	198	85	42
13D-12S12N2WNL	12	12	167	53	197	85	46
13D-12S15N2WNL	12	15	133	45	197	85	54

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 Protection	Short Term		1 Sec		
Line Regulation	For 1.0% OF Vin		±1.2		%
Load Regulation	5V (10% To 100% F.L.)			15	%
Load Regulation	9 & 12V, 15V (10% To 100% F.L.)			10	%
Ripple & Noise	BW=DC To 20MHz			200	mVp-p
Transient response setting time	50% load step change		350		us

General Specifications

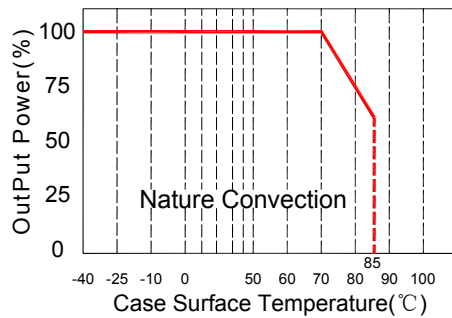
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switngfrequency			100		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
Weight			1.8		g
Dimensions		11.50x7.50x10.00			mm



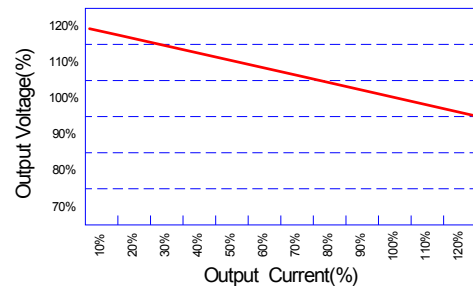
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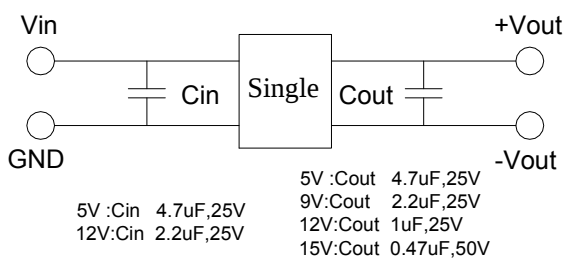
Temperature Derating Graph



Tolerance Envelope Graph



Recommended Test Circuit

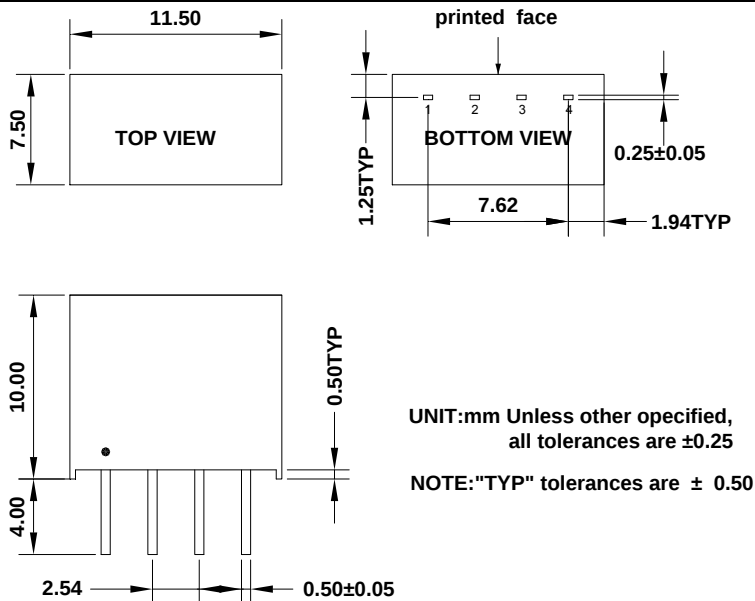


Part Number

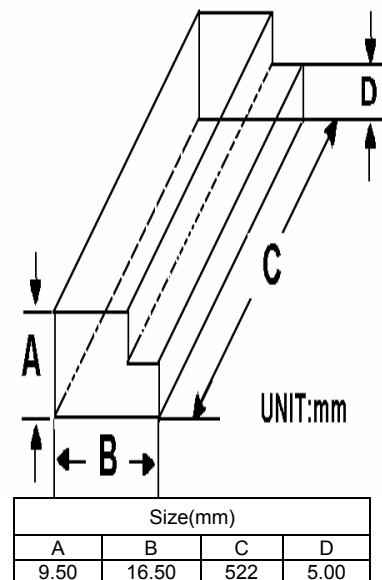
13D - 05 S 05 N 2W NL
A B C D E F G

A:Series
B:Input Voltage
C:Single(S)
D:Output Voltage
E:Unregulated(N)
F:Output Power
G:RoHS Version

Markings and Dimensions



Packaging



PIN Connection

PIN	1	2	3	4
Single	-Vin	+Vin	-Vout	+Vout