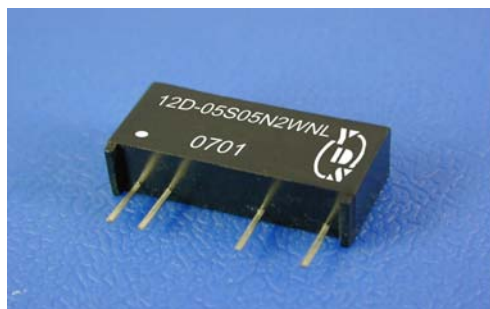




Yuan Dean Scientific CO.,LTD 12D-2W SERIES

3000Vdc Single & Dual Output 2 Watt Dc-Dc Converter



FEATURES:

- 7PIN SIP Package
- 3000Vdc Isolation
- Unregulated Output Types
- UL94V-0 Package Material
- 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	
12D-XXS05N2WNL	5	400	65	1
12D-XXS09N2WNL	9	222	70	1
12D-XXS12N2WNL	12	167	70	1
12D-XXS15N2WNL	15	133	70	1
12D-XXD05N2WNL	±5	±200	65	1
12D-XXD09N2WNL	±9	±111	70	1
12D-XXD12N2WNL	±12	±83	70	1
12D-XXD15N2WNL	±15	±67	70	1

Note:1."XX" Is Input Voltage : 05=5Vdc,12=12Vdc,15=15Vdc,24=24Vdc,48=48Vdc

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				±5	%
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	9V,12V & 15V (10% To 100% F.L.)			10	%
Ripple & Noise	BW=DC To 20MHz			150	mVp-p
Transient response setting time	50% load step change		350		us

General Specifications

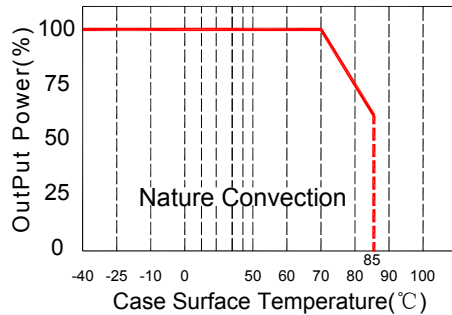
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency			100		KHz
Operation Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
Weight			2.1		g
Dimensions			19.5x7.1x10.0		mm



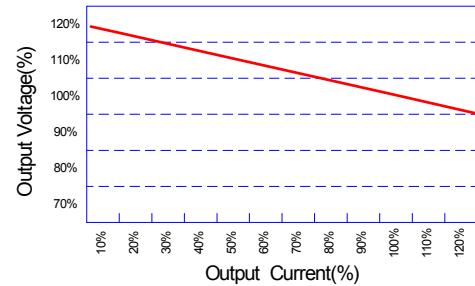
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3000Vdc Single & Dual Output 2 Watt Dc-Dc Converter

Temperature Derating Graph

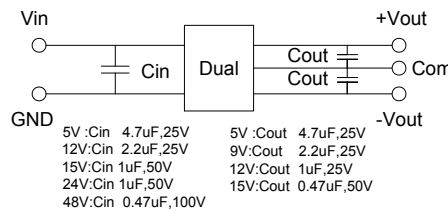
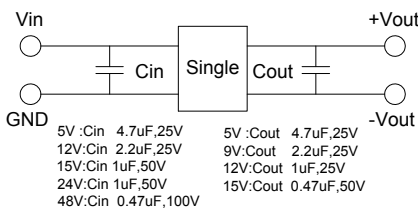


Tolerance Envelope Graph



Recommended Test Circuit

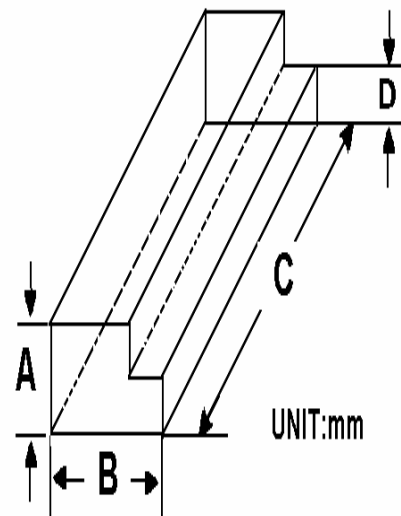
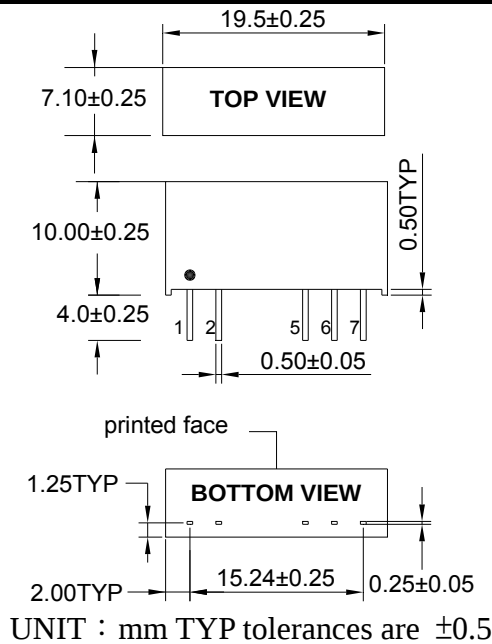
Part Number



12D - 05 S 05 N 2W NL
 A B C D E F G
 A:Series
 B:Input Voltage
 C:Single(S) Dual(D)
 D:Output Voltage
 E:Unregulated(N)
 F:Output Power
 G:RoHS Version

Markings and dimensions

Packaging



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

PIN Connection

PIN	1	2	5	6	7
Single	+Vin	-Vin	-Vout	No Pin	+Vout
Dual	+Vin	-Vin	-Vout	Common	+Vout