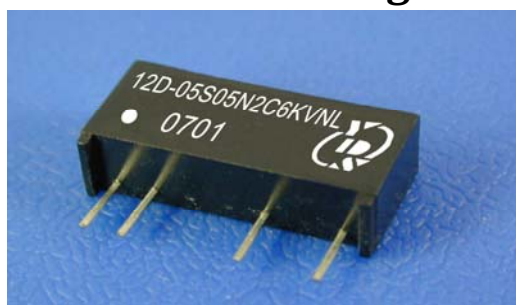


Yuan Dean Scientific CO.,LTD 12D-6KV SERIES

6000Vdc Single & Dual Output 1 Watt Dc-Dc Converter



FEATURES:

- 7PIN SIP Package
- 6000Vdc 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	Output Voltage	Output Current	Efficiency
	Vdc	mA	%TYP
12D-XXS05N2C6KVNL	5	200	70
12D-XXS09N2C6KVNL	9	112	75
12D-XXS12N2C6KVNL	12	84	75
12D-XXS15N2C6KVNL	15	67	75
12D-XXD05N2C6KVNL	±5	±100	70
12D-XXD09N2C6KVNL	±9	±56	75
12D-XXD12N2C6KVNL	±12	±42	75
12D-XXD15N2C6KVNL	±15	±34	75

Note: "XX" Is Input Voltage :03=3.3Vdc,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

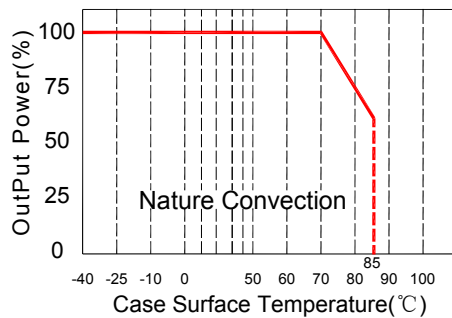
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency			100		KHz
Operation Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
Weight			2.1		g
Dimensions			19.5x7.10x10.0		mm



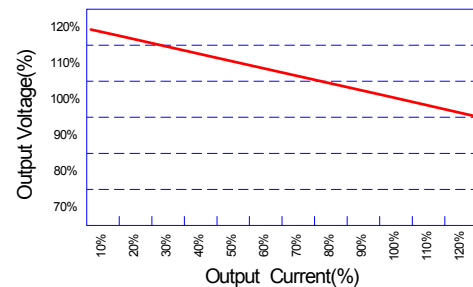
Yuan Dean Scientific CO.,LTD 12D-6KV SERIES

6000Vdc Single & Dual Output 1 Watt Dc-Dc Converter

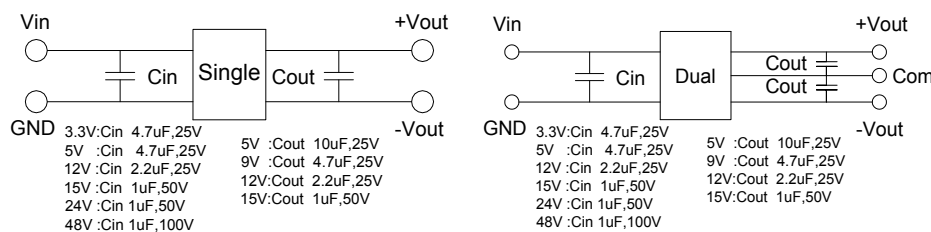
Temperature Derating Graph



Tolerance Envelope Graph



Recommended Test Circuit

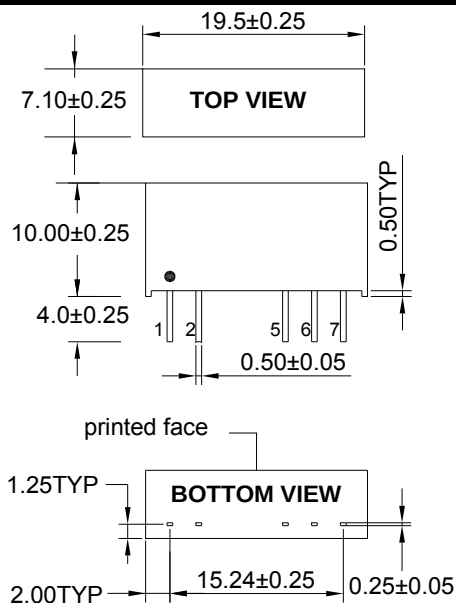


Part Number

12D - 05 S 05 N 2 C 6KV NL
A B C D E F G H I

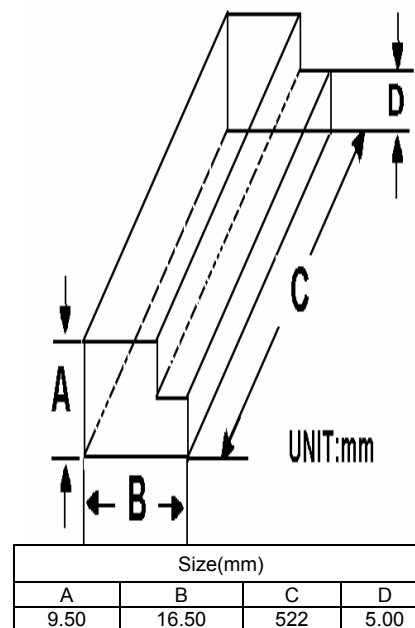
A: Series
B: Input Voltage
C: Single(S) Dual(D)
D: Output Voltage
E: Unregulated(N)
F: Package
G: Operating Temperature
H: Isolation Voltage
I: RoHS Version

Markings and dimensions



UNIT : mm ,TYP tolerances are ±0.5

Packaging



PIN Connection

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