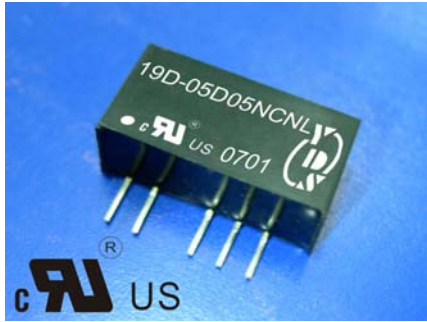




1000Vdc Single & Dual Output 2 Watt Dc-Dc Converter



FEATURES:

- 7PIN SIP PACKAGE.
- 1000VDC ISOLATION.
- 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	
19D-XXS05NNL	5	400	65	1
19D-XXS09NNL	9	222	70	1
19D-XXS12NNL	12	167	70	1
19D-XXS15NNL	15	133	70	1
19D-XXD05NNL	±5	±200	65	1
19D-XXD09NNL	±9	±111	70	1
19D-XXD12NNL	±12	±83	70	1
19D-XXD15NNL	±15	±67	70	1

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

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	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

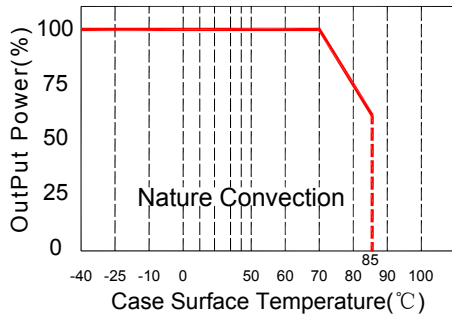
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switingfrequency			75		KHz
Operating Temperature		-40		+85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
Weight			2.7		g
Dimensions			19.5x7.1x10.0		mm

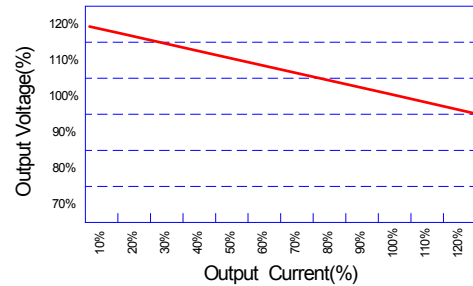


1000Vdc Single & Dual Output 2 Watt Dc-Dc Converter

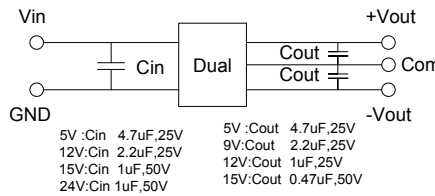
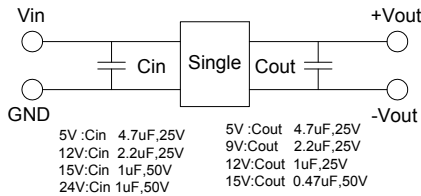
Temperature Derating Graph



Tolerance Envelope Graph



Recommended Test Circuit



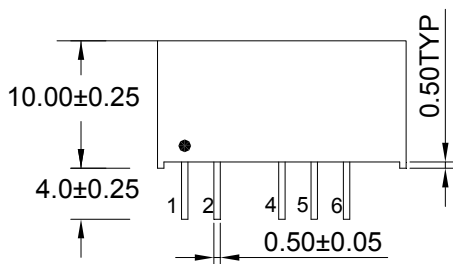
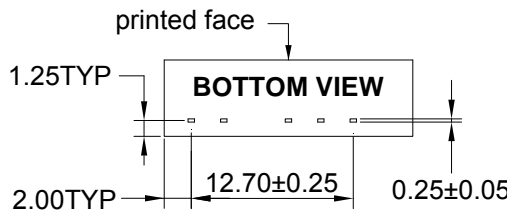
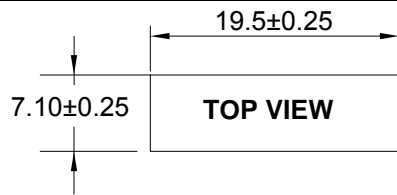
Part Number

19D - 05 S 05 N C NL
A B C D E F G

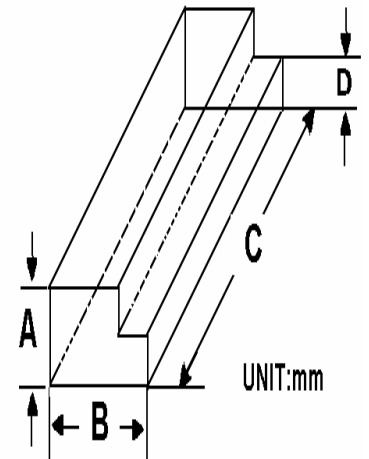
- A:Series
- B:Input Voltage
- C:Single(S)Dual(D)
- D:Output Voltage
- E:Unregulated(N)
- F:Operating Temperature
- G:RoHS Version

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

7PIN	1	2	4	5	6
Single	+Vin	-Vin	-Vout	NC	+Vout
Dual	+Vin	-Vin	-Vout	Com	+Vout