



1 Watt Single Output Regulated Isolation 1000Vdc Dc-Dc Converter



FEATURES:

- 2:1 Wide Input Voltages Range
- Efficiency To 80%
- UL 94V-0 Package Material
- Low Ripple And Noise
- Continuous Short Circuit Protection With Current Foldback.
- Operating Temperature:-40~+85℃
- MTBF:>1,000,000 hrs



Specifications typical at TA=25℃, nominal input voltage and rated output current unless otherwise specified

Part Number	Input Voltage Range	Output Voltage Range	Output Current	Efficiency
	Vdc	Vdc	mA	% TYP
16D-05S05RNL	5-9	5	200	60
16D-05S09RNL	5-9	9	111	70
16D-05S12RNL	5-9	12	167	70
16D-05S15RNL	5-9	15	83	70
16D-12S05RNL	9-18	5	200	70
16D-12S09RNL	9-18	9	111	80
16D-12S12RNL	9-18	12	167	80
16D-12S15RNL	9-18	15	83	80
16D-24S05RNL	18-36	5	200	70
16D-24S09RNL	18-36	9	111	80
16D-24S12RNL	18-36	12	167	80
16D-24S15RNL	18-36	15	83	80
16D-48S05RNL	36-72	5	200	70
16D-48S09RNL	36-72	9	111	80
16D-48S12RNL	36-72	12	167	80
16D-48S15RNL	36-72	15	83	80

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Types				2:1	
Filter	Capacitor				

Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance				±3	%
Short Circuit	Continuous				
Line Regulation	Regulated			0.5	%
Load Regulation	Regulated			0.8	%
Ripple & Noise	output:5-9V TYPES BW=DC To 20MHz			100	mVp-p
Ripple & Noise	output:12-15V TYPES BW=DC To 20MHz			1%of Vout	mVp-p
Transient response setting time	50% load step change		350		us

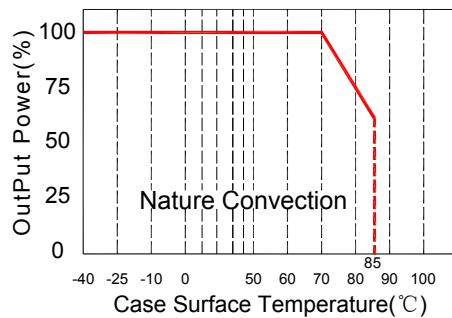
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching frequency			100		KHz
Operating Temperature		-40		85	℃
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
Weight			4.5		g
Dimensions			21.8X9.2X11.1		mm

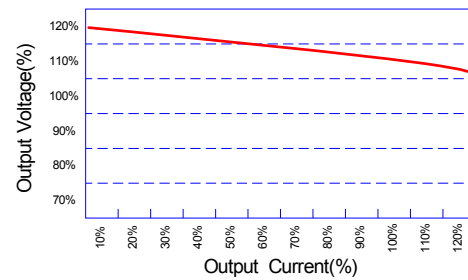


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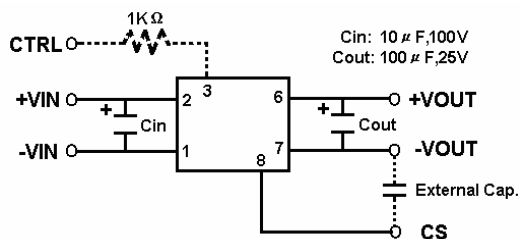
Temperature Derating Graph



Tolerance Envelope



Recommended Test Circuit

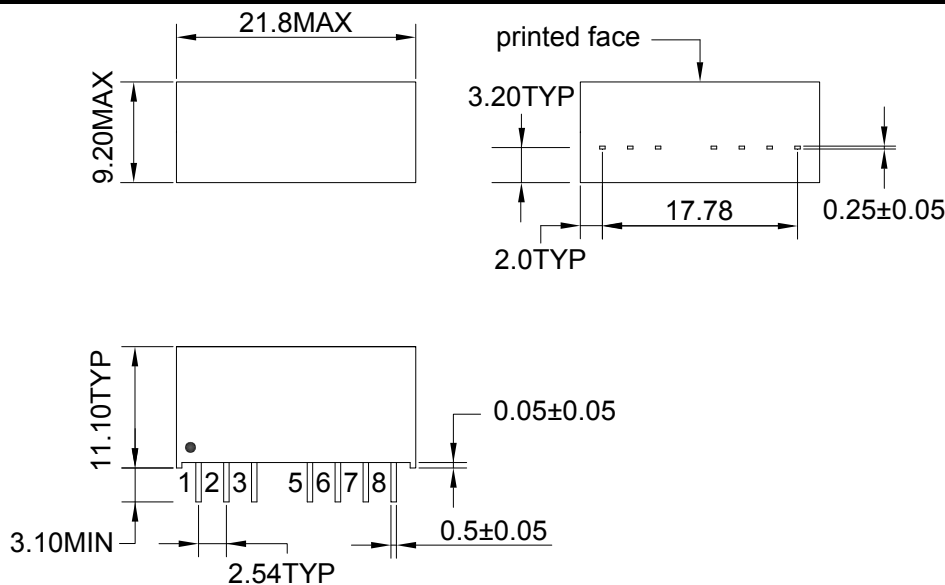


Part Number

16D - 05 S 05 R NL
A B C D E F

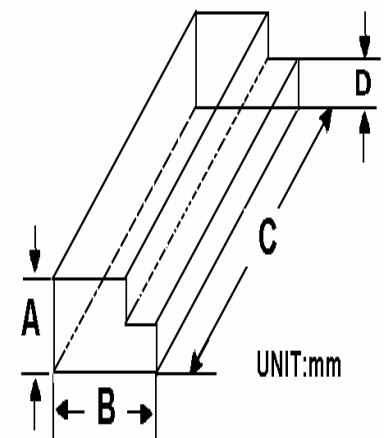
A:Series
B:Input Voltage
C:Single(S)
D:Output Voltage
E:Regulated(R)
F:RoHS Version

Markings and dimensions



UNIT : mm TYP tolerances are ± 0.5

Packaging



Size(mm)			
A	B	C	D
12.0	28.55	550	6.00

PIN Connection

PIN	1	2	3	4	5	6	7	8
Single	-IN	+IN	Ctrl-Control input can (can be left open)	No PIN	NE-No external connection allowed	+OUT	-OUT	CS Optional External capacitor