

FEATURES :

- 2:1Wide Input Voltages Range
- High Efficiency up to 85%
- Regulated Output Types
- Low Ripple And Noise
- Internal SMD Construction
- Operating Temperature:-40~+85°C
- Industry Standard Pinout
- Continuous Short Circuit Protection With Current Foldback

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

Part Number	Input Voltage	Output Voltage	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	84	70
16D-05S15RNL	5-9	15	67	70
16D-05S24RNL	5-9	24	42	70
16D-12S05RNL	9-18	5	200	70
16D-12S09RNL	9-18	9	111	80
16D-12S12RNL	9-18	12	84	80
16D-12S15RNL	9-18	15	67	80
16D-12S24RNL	9-18	24	42	80
16D-24S05RNL	18-36	5	200	75
16D-24S09RNL	18-36	9	111	80
16D-24S12RNL	18-36	12	84	80
16D-24S15RNL	18-36	15	67	80
16D-24S24RNL	18-36	24	42	80
16D-48S05RNL	36-72	5	200	70
16D-48S09RNL	36-72	9	111	80
16D-48S12RNL	36-72	12	84	80
16D-48S15RNL	36-72	15	67	80
16D-48S24RNL	36-72	24	42	80

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Types	Vo, Io Nom			2:1	
Filter	Capacitor				

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DC-DC Converter

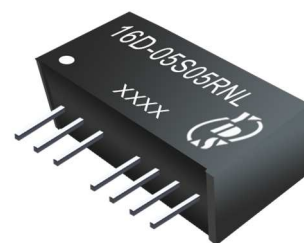
16D-Single SERIES

1Watt 1KV Isolated

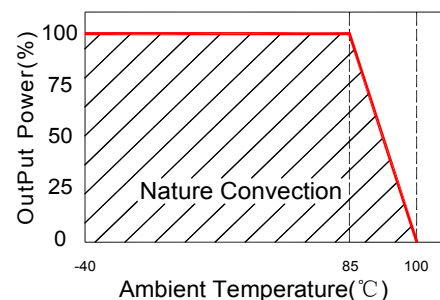
2 : 1 Input Voltage Range

Single Output

SIP8



Temperature Derating Graph



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Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			±3	%
Short Circuit Protection	Continuous				
Line Regulation	Regulated			±0.5	%
Load Regulation	Regulated			±0.8	%
Ripple & Noise	Output:5V-9V TYPES BW=DC To 20MHz			100	mVp-p
Ripple & Noise	Output:12-24V TYPES BW=DC To 20MHz			1% of Vout	mVp-p
Transient response setting time	50% load step change		350		us

General Specifications

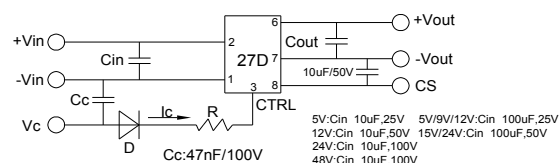
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load, nominal input		100		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F @25°C	1500000			Hours
Weight			4.5		g
Dimensions			21.8x9.2x11.1		mm

Part Number

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

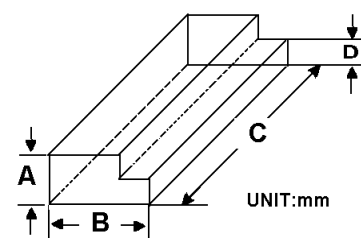
A:Series
B:Input Voltage
C:Single(S)
D:Output Voltage
E:Regulated(R)
F:RoHS Version

Recommended Test Circuit



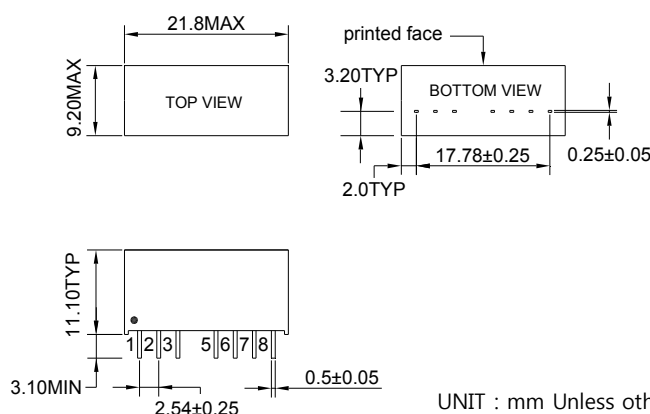
1. When open or high impedance, the converter works well; When this pin is 'high', the converter shut down. It should be noted that the input current should be between 5-10mA, exceeding the maximum 20mA will cause permanent damage to the converter.
2. To make sure the product work at perfect operation status with full loading external capacitor is necessary and it is recommended to use high frequency low resistance electrolytic capacitor.

Packaging



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

Markings and dimensions



UNIT : mm Unless otherwise specified, all tolerances are ± 0.25

PIN Connection

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

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