

FEATURES :

- 4:1 Wide Input Voltages Range
- High Efficiency up to 80%
- Regulated Output Types
- Low Ripple And Noise
- Internal SMD Construction
- Operating Temperature: -40°C TO +85°C
- Industry Standard Pinout
- Continuous Short Circuit Protection With Current Fold back

Specifications typical at TA=25°C, 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
27DW-24S05RNL	9-36	5	400	75
27DW-24S09RNL	9-36	9	222	80
27DW-24S12RNL	9-36	12	167	80
27DW-24S15RNL	9-36	15	133	80
27DW-24S24RNL	9-36	24	84	80
27DW-48S05RNL	18-75	5	400	70
27DW-48S09RNL	18-75	9	222	80
27DW-48S12RNL	18-75	12	167	80
27DW-48S15RNL	18-75	15	133	80
27DW-48S24RNL	18-75	24	84	80

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Vo, Io Nom			4:1	
Filter	Capacitor				

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: 5-9V 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

YUAN DEAN SCIENTIFIC



DC-DC Converter

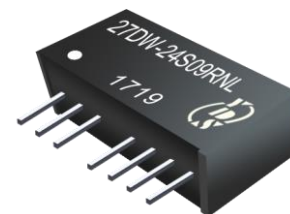
27DW-Single SERIES

2Watt 1KV Isolated

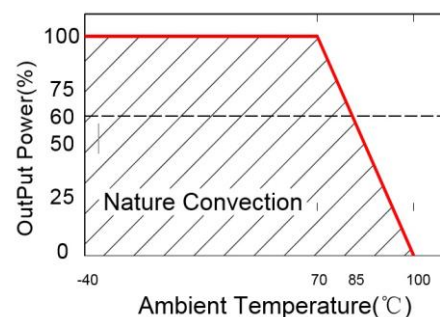
4 : 1 Input Voltage Range

Single Output

SIP8



Temperature Derating Graph



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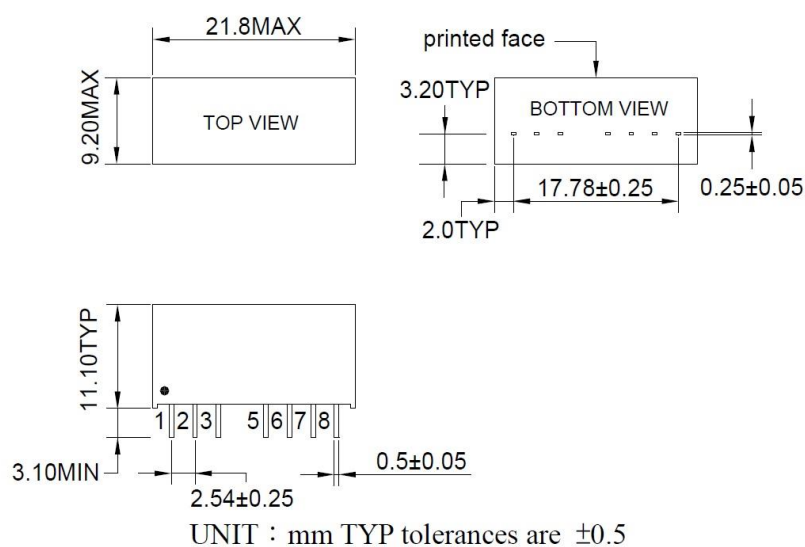
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Rev:0 2018/04/02

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

Markings and dimensions



PIN Connection

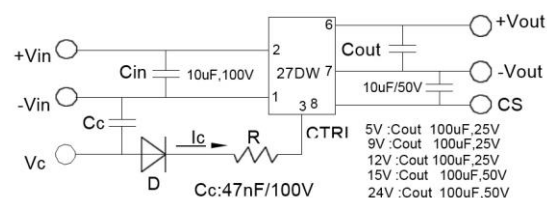
Pin	1	2	3	5	6	7	8
Single	-Vin	+Vin	Ctrl-Control input can (can be left open)	NE-No external connection allowed	+Vout	-Vout	CS Optional External capacitor

Part Number

27DW	-	24	S	05	R	NL
A		B	C	D	E	F

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

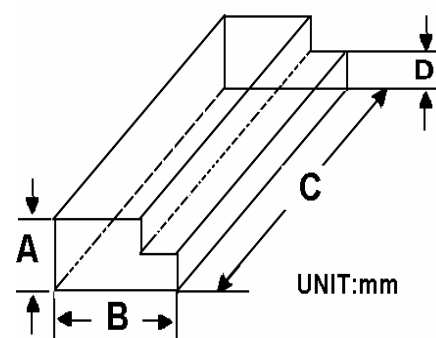
Recommended Test Circuit



1. When open or high impedance, the converter works well; when this pin is 'high', the converter shut down. It should be note 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