

FEATURES :

- 2:1Wide Input Voltages Range
- High Efficiency up to 80%
- Regulated Output Types
- Low Ripple And Noise
- Internal SMD Construction
- 1.5KVDC & 3KVDC Isolation
- Operating Temperature:-40°C TO +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
27D-12D05R3W (3KV)	9-18	±5	±300	70
27D-12D09R3W (3KV)	9-18	±9	±167	75
27D-12D12R3W (3KV)	9-18	±12	±125	78
27D-12D15R3W (3KV)	9-18	±15	±100	80
27D-24D05R3W (3KV)	18-36	±5	±300	70
27D-24D09R3W (3KV)	18-36	±9	±167	75
27D-24D12R3W (3KV)	18-36	±12	±125	78
27D-24D15R3W (3KV)	18-36	±15	±100	80
27D-48D05R3W (3KV)	36-72	±5	±300	70
27D-48D09R3W (3KV)	36-72	±9	±167	75
27D-48D12R3W (3KV)	36-72	±12	±125	78
27D-48D15R3W (3KV)	36-72	±15	±100	80

NOTE :

No suffix is standard isolation (1.5KVDC) e.g. 27D-12D05R3W
 *add suffix /3KV for 3KVDC isolation, e.g. 27D-12D05R3W3KV

Input Specifications

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

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DC-DC Converter

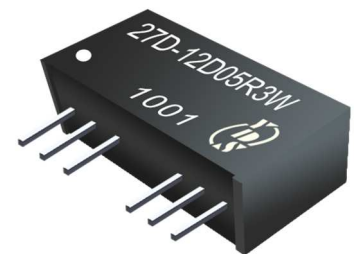
27D-3W SERIES

3Watt 1.5KV & 3KV Isolated

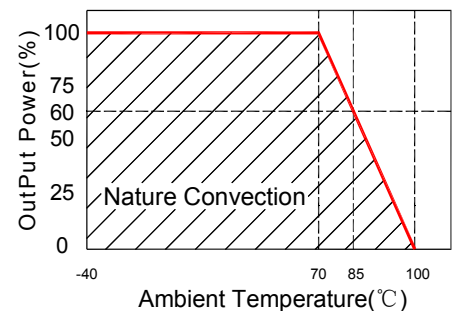
2 : 1 Input Voltage Range

Dual Output

SIP8



Temperature Derating Graph



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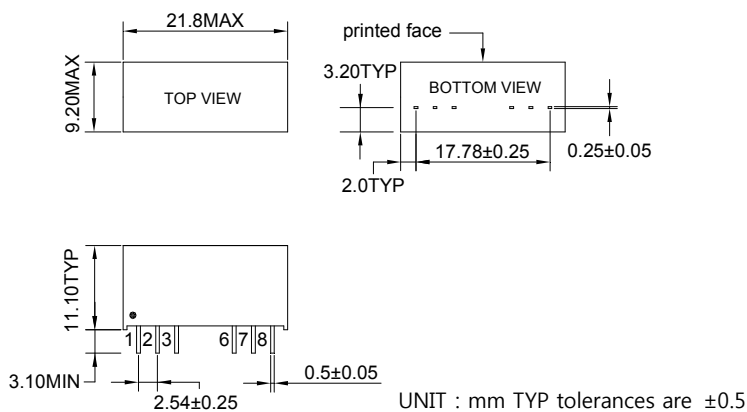
Output Specifications

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: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	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

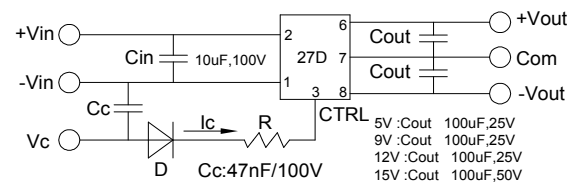


Part Number

27D - 12 D 05 R 3W 3KV
A B C D E F G

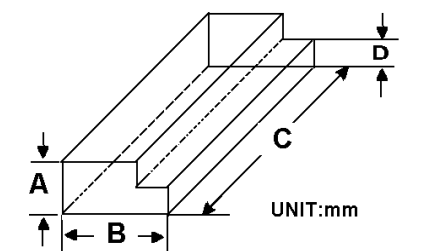
- A:Series
- B:Input Voltage
- C:Dual Output
- D:Output Voltage
- E:Regulated(R)
- F:Output Power
- G:Isolation Voltage

Recommended Test Circuit



- 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.
- 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	55.0	6.00

PIN Connection

Pin	1	2	3	6	7	8
Dual	-Vin	+Vin	Ctrl-Control input can (can be left open)	+Vout	COM	-Vout

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