

**2Watt Single Output Regulated Isolation 1000vdc Dc-Dc Converter**



**FEATURES:**

- 2:1 Wide Input Voltages Range
- High Efficiency up to 85%
- 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 Foldback.



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
27D-05S05RNL	5-9	5	400	65
27D-05S09RNL	5-9	9	222	70
27D-05S12RNL	5-9	12	167	70
27D-05S15RNL	5-9	15	133	70
27D-05S24RNL	5-9	24	84	70
27D-12S05RNL	9-18	5	400	70
27D-12S09RNL	9-18	9	222	80
27D-12S12RNL	9-18	12	167	80
27D-12S15RNL	9-18	15	133	80
27D-12S24RNL	9-18	24	84	80
27D-24S05RNL	18-36	5	400	75
27D-24S09RNL	18-36	9	222	80
27D-24S12RNL	18-36	12	167	80
27D-24S15RNL	18-36	15	133	80
27D-24S24RNL	18-36	24	84	80
27D-48S05RNL	36-72	5	400	70
27D-48S09RNL	36-72	9	222	80
27D-48S12RNL	36-72	12	167	80
27D-48S15RNL	36-72	15	133	80
27D-48S24RNL	36-72	24	84	80

**Input Specifications**

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

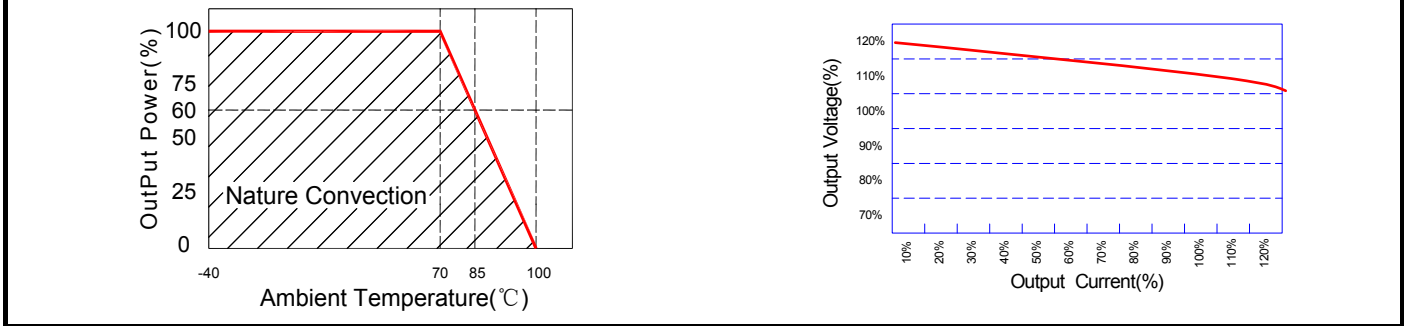
**Output Specifications**

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

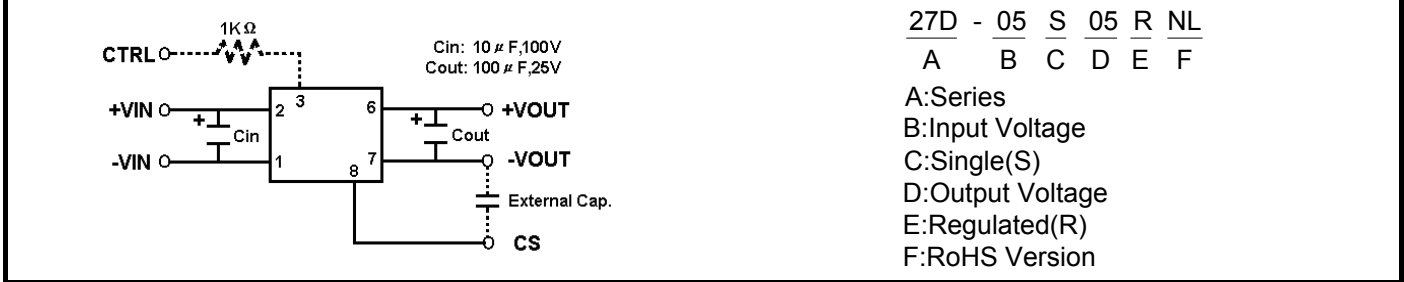
**General Specifications**

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	3500000			Hours
Weight			4.5		g
Dimensions			21.8X9.2X11.1		mm

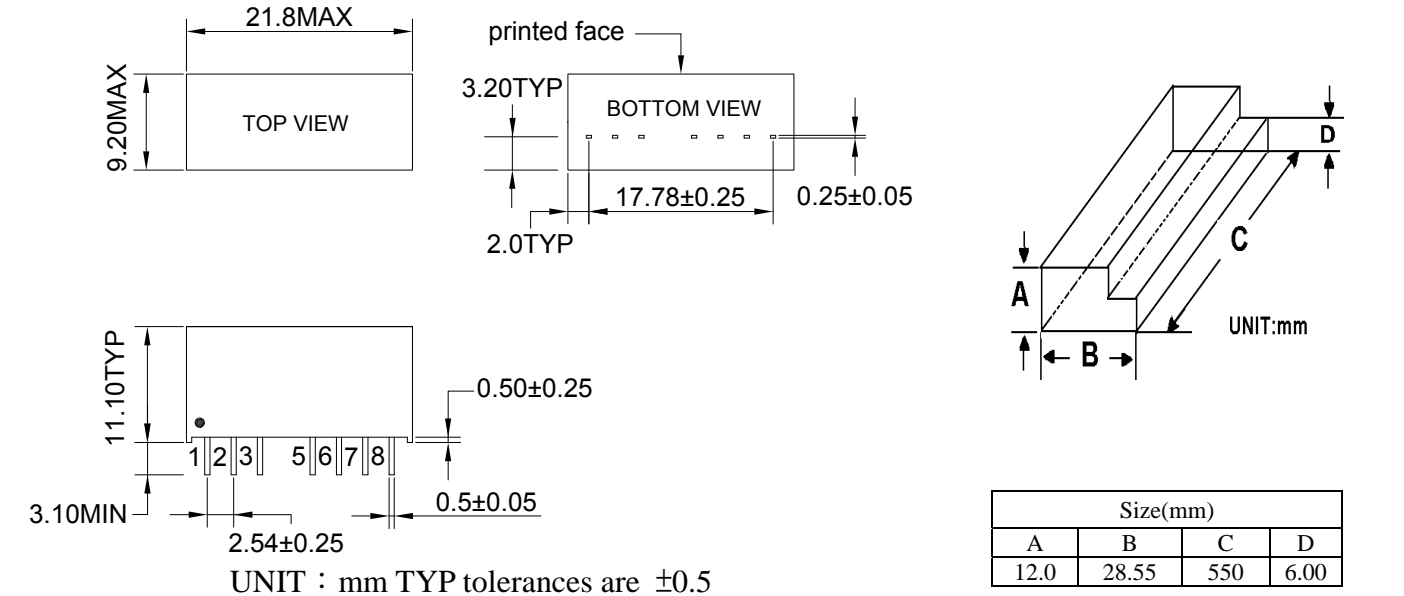
**Temperature Derating Graph      Tolerance Envelope Graph**



**External Circuit      Part Number**



**Markings and Dimensions      Packaging**



**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