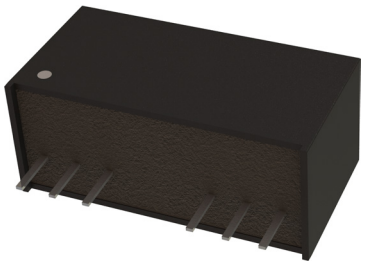
Isolated DC DC Converter

multicomp PRO

RoHS Compliant



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

Specification Table

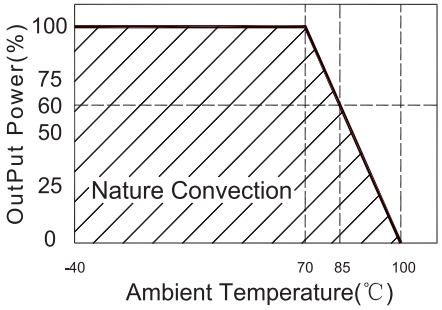
Typical @ T_A=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Input Voltage	Output Voltage	Output Current	Efficiency
	V DC	mA	%TYP	Max.
MP27D-24S15R3W	18-3	15	200	80

Input Specifications

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

Temperature Derating Graph



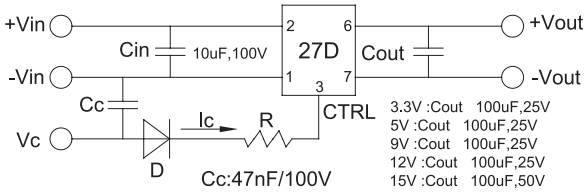
Output Specifications

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:3.3V-9V Types BW=DC To 20MHz		-	100	mVp-p
	Output:12-15V Types BW=DC To 20MHz		-	1% of Vout	
Transient response setting time	50% load step change		350	-	us

General Specifications

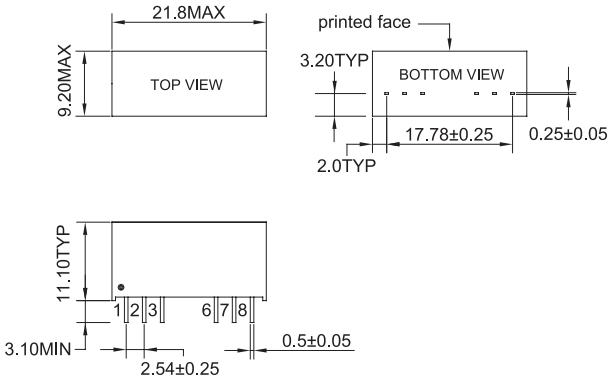
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500V DC	1000			MΩ
Switching Frequency	Full load, nominal input		100		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F@25°C	1500000			Hours
Weight			4.5		g
Dimensions			21.8 × 9.2 × 11.1		mm

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.

Markings and Dimensions



PIN Connection						
PIN	1	2	3	6	7	8
Single	-Vin	+Vin	Ctrl-Control input can (can be left open)	+Vout	-Vout	NC

Part Number Table

Description	Part Number
DC to DC Converter, Isolated, 3W, 200mA, 24Vin, 15Vout	MP27D-24S15R3W

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