

FD80V10AS1 DC-DC Converter Input Filters

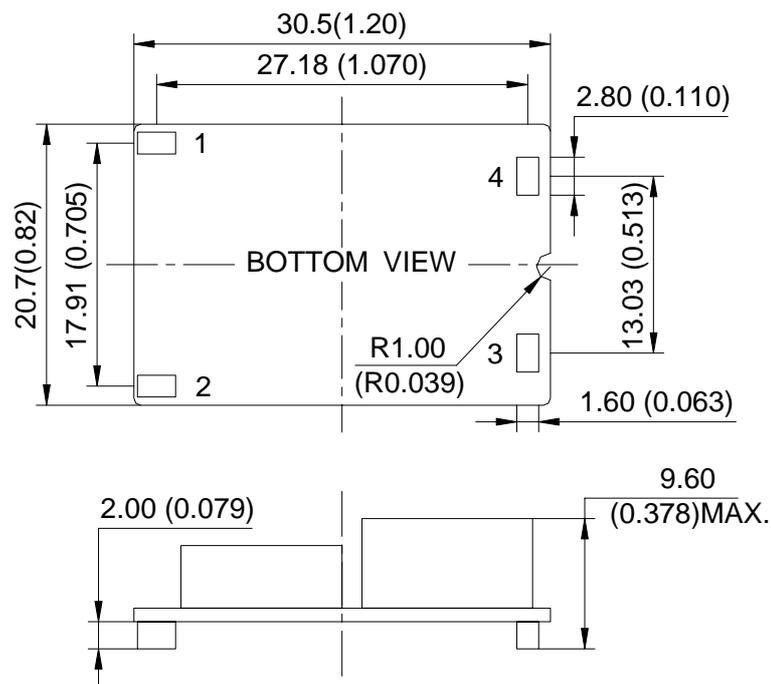
Input 0V-80V, 10Amps, SMT Mount

Features

- RoHS lead free solder and lead solder exempted products are available
- Maximum current 10A with no derating
- Maximum operating input voltage 80V
- Operation over -40 °C to 85 °C ambient temperature range
- No airflow required up to 85 °C
- 100 V 100 ms transient withstand capability
- Differential LC-filter stage
- Surface mounted design
- Small footprint – less than 1 sq. in.



Outline Diagram



Notes: all dimensions in mm(inches)

Tolerances: x.x mm : ±0.5mm (x.xx in.±0.02in.)

x.xx mm : ±0.25mm (x.xxx in.±0.010in.)

Pin	Symbol	Function
1	+Vin	Positive Input
2	-Vin	Negative Input
3	-Vo	Negative Output
4	+Vo	Positive Output

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Specification

Conditions: TA = 25 °C, No Airflow, Vin = 48 V, unless otherwise specified.

General	Symbol	Min	Typ	Max	Unit	Conditions
Absolute Maximum Ratings						
Input Voltage Continuous	—	0	—	100	V	Continuous
Operating Ambient Temperature	—	-40	—	85	°C	—
Storage Temperature	—	-55	—	125	°C	—

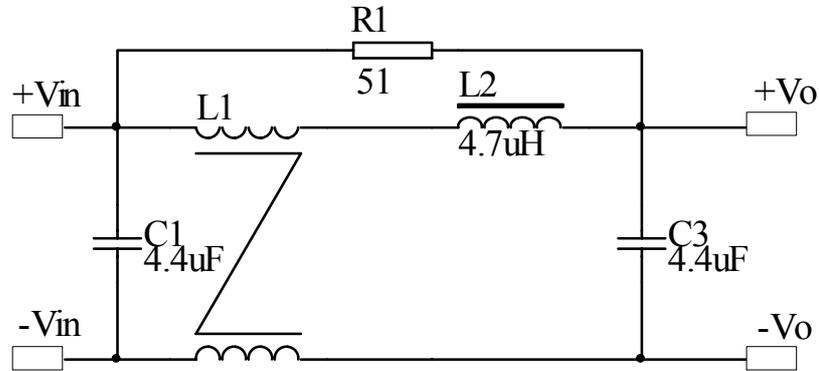
General	Symbol	Min	Typ	Max	Unit	Conditions
Operating Input Voltage Range	V _O	0	48	80	V	—
Operating Current	I _O	0	—	10	A	85 °C ambient, no airflow
DC Resistance (total for two legs)	—	—	0.016	—	Ω	—
Filter differential inductance	—	—	4.7	—	μH	—
Filter common mode inductance	—	6.5	—	—	μH	For frequencies below 10 MHz
Differential mode Attenuation at 400 kHz	—	—	57	—	dB	—
Differential mode attenuation at 30 MHz	—	—	56	—	dB	—
Common mode Attenuation at 400 kHz	—	—	24	—	dB	—
Common mode Attenuation at 30 MHz	—	—	50	—	dB	—
Efficiency	η	99.6	99.7	—	%	Vin = 48V @ 10 A

Additional Notes:

50 Ω source and 50 Ω load impedance.

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Basic Connection

Notes: The basic connection indicates the basic requirements that the power module can provide rated output voltage and rated power only. Please refer the instruction followed for further information.

Quality Statement

The converters are manufactured in accordance with ISO 9001 system requirements, in compliant with YD/T1376-2005, and are monitored 100% by auto-testing system.

The warranty for the converters is 5-years.