

DC-DC Converters

**POWER
SOLVE**

TDR3SM Series, 3 Watt

www.powersolve.co.uk

Features

- Compact design in SMD package
- Wide 2:1 input range
- Fully regulated outputs
- No minimum load requirement
- I/O isolation 1500VDC
- Operating temperature range -40°C to +85°C
- Short circuit protection
- Remote ON/OFF



Electrical Specification

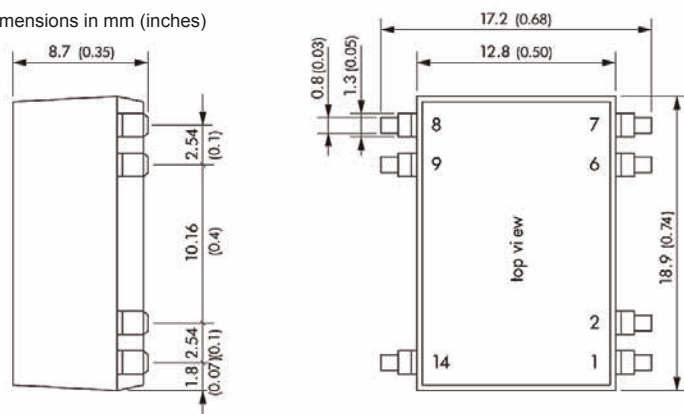
Short Circuit Protection	continuous, automatic recovery
Operating Temperature Range	-40°C to +85°C (derate at 3.5%/°C above 70°C)
I/O Isolation test voltage	1500VDC
Safety Approvals	cUL/UL 60950-1, IEC/EN 60950-1
Casing	epoxy moulded (UL94V-0 rated)
Remote ON/OFF	shutdown input for low current (2.5mA) in standby operation

Output Voltage and Current Ratings

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	LINE REG.	LOAD REG.	EFF. (typ.)
TDR3-0511SM	4.5 - 9VDC	5VDC	600mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-0512SM		12VDC	250mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-0513SM		15VDC	200mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-0522SM		±12VDC	±125mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-0523SM		±15VDC	±100mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-1211SM	9 - 18VDC	5VDC	600mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-1212SM		12VDC	250mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-1213SM		15VDC	200mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-1222SM		±12VDC	±125mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-1223SM		±15VDC	±100mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-2411SM	18 - 36VDC	5VDC	600mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-2412SM		12VDC	250mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-2413SM		15VDC	200mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-2422SM		±12VDC	±125mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-2423SM		±15VDC	±100mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-4811SM	36 - 75VDC	5VDC	600mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-4812SM		12VDC	250mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-4813SM		15VDC	200mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-4822SM		±12VDC	±125mA	30mV pk-pk max.	0.2%	1.0%	81%
TDR3-4823SM		±15VDC	±100mA	30mV pk-pk max.	0.2%	1.0%	81%

Mechanical and Connection Details

Dimensions in mm (inches)



Pin	Single Output	Dual Output
1	-Vin (GND)	-Vin (GND)
2	Remote ON/OFF	Remote ON/OFF
6	No Conn.	Common
7	No Conn.	-Vout
8	+Vout	+Vout
9	-Vout	Common
14	+Vin (Vcc)	+Vin (Vcc)