

PDS10-48D0503

10 Watt Dual Outputs

Features

- Custom-built footprint:
2.72" x 1.58" x 0.47" (69 x 40 x 12mm³)
- Typical efficiency: 68%
- Wide input voltage: 36-60Vdc
- Dual outputs: 3.3V&2A; 5V&0.4A
- Output over-current protection
- Output over-voltage protection
- Output short-circuit protection
- Meet EN55022 CLASSB standard
- Functional insulation

Environmental

- Operating ambient temperature range:
-10 to 55
- Operating board temperature range:
-10 to 100
- Storage temperature:
-40 to 70
- Temp.coefficient:
$\leq \pm 0.02\%/$
- MTBF:
>2 million hrs

Electrical Specifications

Input

Input range: 36-60Vdc

Output

Voltage setpoint accuracy:

$\pm 3.0\%V_{o1}$ max. for 3.3Vout

$\pm 3.0\%V_{o2}$ max. for 5Vout

Line regulation: $0.6\%V_{o1}$ max. for 3.3Vout

$0.6\%V_{o2}$ max. for 5Vout

Load regulation: $1.0\%V_{o1}$ max. for 3.3Vout

$1.0\%V_{o2}$ max. for 5Vout

Short-circuit protection: continuous, auto-recovery

Over-current protection: $>140\%I_{o1}$, auto-recovery
for 3.3Vout

Over-voltage protection: $>120\%V_{o1}$, latch off. for 3.3Vout

Ripple and noise: $<50\text{mV}_{\text{pp}}$ max. for 3.3Vout

$<30\text{mV}_{\text{pp}}$ max. for 5Vout

Transient response: recovery $<200\mu\text{S}$ max.

150mV max. for 3.3Vout

250mV max. for 5Vout

(25% step load change from 50% I_o)

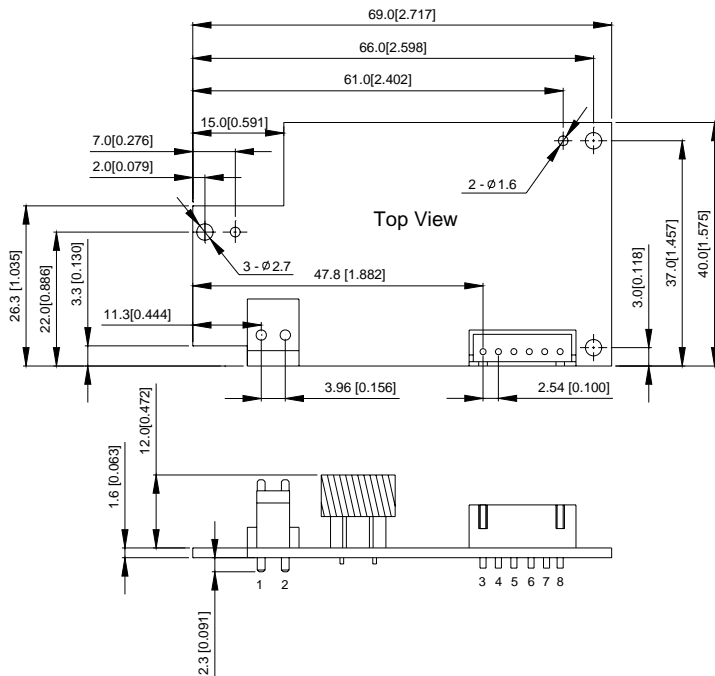
di/dt: 1A/10 μS



Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	3.3V 5V	2A 0.4A	68%	PDS10-48D0503

Dimensions



TOLERANCES: X.Xmm= \pm 0.5mm
X.XXmm= \pm 0.25mm

Unit:mm[inch]

Pin Assignments

1	+Vin
2	-Vin
3	V _{O2} (+5V)
4, 5, 6	COM
7, 8	V _{O1} (+3.3V)

Notes: The detail and recommended hole pattern layout is available in the Application Manual.