

PDM40-48S Series

40 Watt Single Output

Features

- Industry standard footprint:
2" x 1.6" x 0.38" (50.8 x 40.6 x 9.66mm³)
- Typical efficiency: 86% (3.3Vout)
- Wide input voltage: 36-75V
- Single output: 3.3V
- Remote control
- Trim function
- Input under-voltage shutdown
- Output over-current protection
- Output over-voltage protection
- Output short-circuit protection
- Over-temperature protection
- No minimum load requirement

Environmental

- Operating ambient temperature range:
-40 to 55
- Operating board temperature range:
-40 to 100
- Storage temperature:
-55 to 125
- Over-temperature protection:
>110 typical
- Temp.coefficient:
<±0.02%/
- MTBF:
>2 million hrs

Electrical Specifications

Input

Input range: 36-75Vdc
Input under-voltage shutdown: 32-35Vdc

Output

Voltage setpoint accuracy: ±1.0%V_o max
Voltage adjust: 90% to 110% V_o
Line regulation: 0.2%V_o max.
Load regulation: 0.5%V_o max.
Short-circuit protection: continuous, auto-recovery
Over-current protection: >120%I_o, auto-recovery
Over-voltage protection: >120%V_o, auto-recovery
Ripple and noise: <120mVpp max.
Transient response: 120mV max.(for 3.3Vout)
recovery <200uS max.
(25% step load change from 50% I_o)
di/dt: 1A/10uS

Control

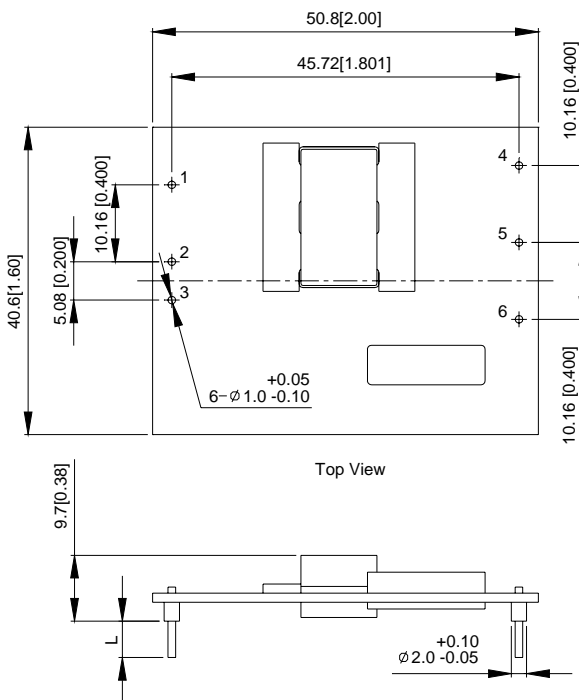
Control voltage:
Positive logic
High =on 3.5 to 10Vdc
Low=off -0.7 to 1.5Vdc
Negative logic
Low =on -0.7 to 1.5Vdc
High=off 3.5 to 10Vdc
Control current: 2mA max.



Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	3.3V	10A	86%	PDM40-48S3V3-4

Dimensions



TOLERANCES: X.Xmm= ± 0.5 mm
X.XXmm= ± 0.25 mm

Unit:mm[inch]

Pin Assignments

1	CNT
2	-Vin
3	+Vin
4	Trim
5	-Vo
6	+Vo

Pin Length

4.8mm	-4
3.8mm	-6
2.8mm	-8
5.8mm	None

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