

PED20 Series

20 Watt Single Output DC/DC Converter

Features

- Industry standard footprint:
2"x1"x0.4"(50.80x25.40x10.16mm³)
- Typical efficiency: 84%,for 5Vout
- 2:1 wide input voltage range: 36-75V
- Single output: 3.3V, 5V
- Trim function and remote control
- Input under-voltage shutdown
- Output over-current; output over- voltage and short-circuit protection
- No minimum load requirement

Environmental

- Operating ambient temperature range:
-40°C to 55°C
- Operating board temperature range:
-40°C to 100°C
- Storage temperature range:
-55°C to 125°C
- Temperature coefficient:
$\lt; \pm 0.02\%/^{\circ}\text{C}$
- MTBF:
>2.8 million hrs

Electrical Specifications

Input

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

Output

Voltage setpoint accuracy:	$\pm 1.0\%V_o$ max
Voltage adjust:	90% to 110% V_o
Line regulation:	0.2% V_o max
Load regulation:	0.5% V_o max
Over-current protection:	>120% I_o , auto-recovery
Over-voltage protection:	>120% V_o , clamped
Ripple and noise:	<100mVpp max.
Transient response:	100mV max recovery<200us max (25%~50%~25% $I_{o\max}$) di/dt: 1A/10uS

Control

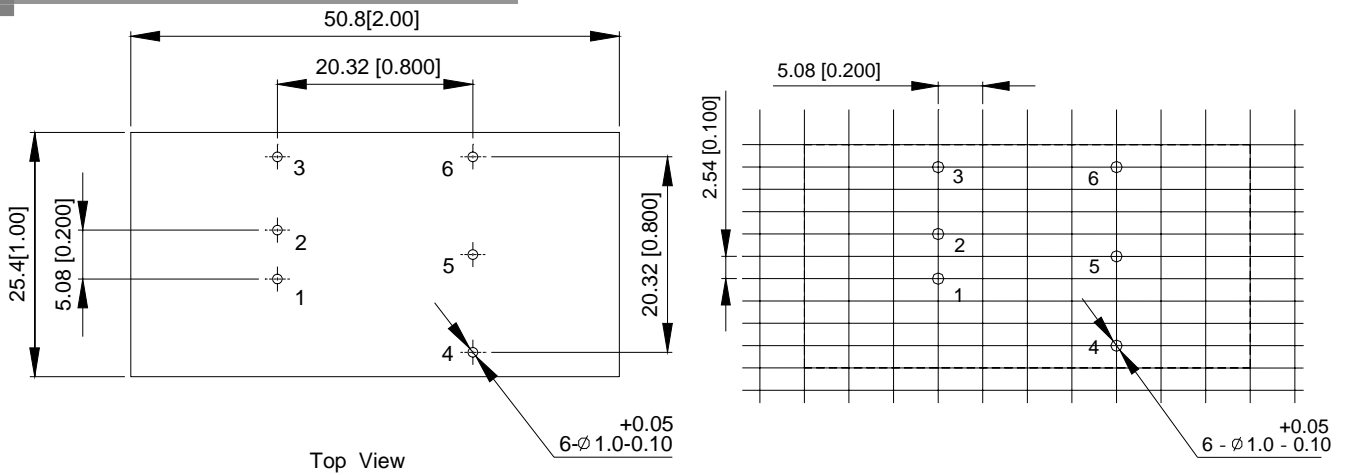
Control voltage:	
Positive logic	
High =on	3.5 to 15Vdc
Low =off	-0.7 to 0.7Vdc
Negative logic	
Low =on	-0.7 to 0.7Vdc
High =off	3.5 to 15Vdc
Control current::	2mA max



Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	3.3V	5A	82%	PED20-48S3V3-4
48V	5V	4A	84%	PED20-48S05-4

Dimensions



Pin Assignments

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

Pin Length: 4.8mm

TOLERANCES: X.Xmm=+/-0.5mm
X.XXmm=+/-0.25mm

Unit:mm[inch]