

# PED20 Series

## 20 Watt Single Output DC/DC Converter

### Features

- Industry standard footprint:  
2"x1"x0.4"(50.80x25.40x10.16mm<sup>3</sup>)
- 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:  
<math>\lt; \pm 0.02\%/^{\circ}\text{C}</math>
- 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

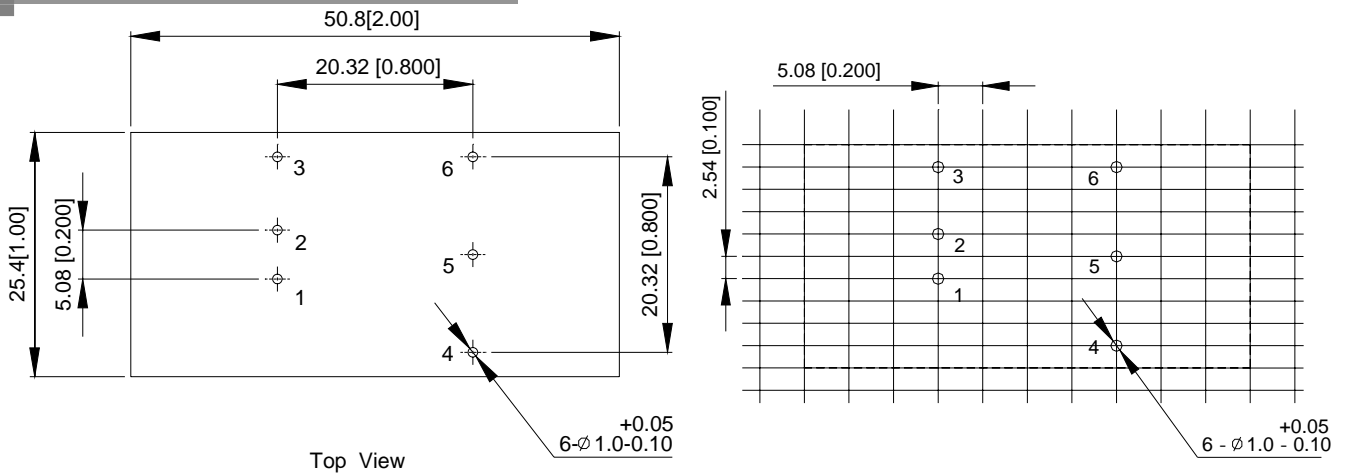
Control voltage:	
Positive logic	
High =on	3.5 to 15Vdc
Low =off	-0.7 to 0.7Vdc
Negative logic	
Low =on	-0.7 to 0.7Vdc
High =off	3.5 to 15Vdc
Control current:	2mA max



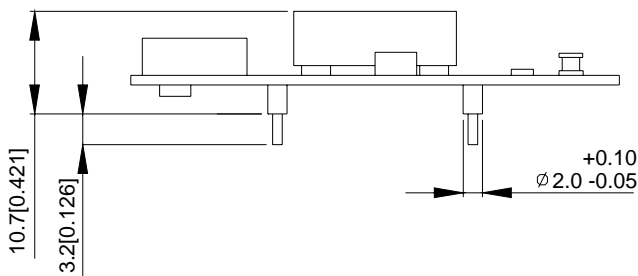
## Ordering Information

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



Top View



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

Unit:mm[inch]

## Pin Assignments

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

Pin Length: 4.8mm