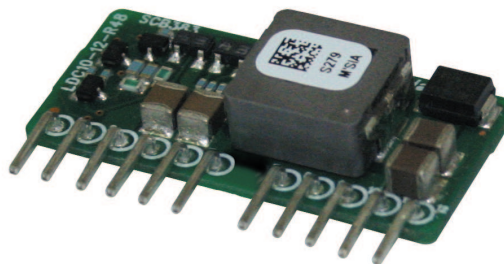


## 10W Programmable DC Input LED Driver

### Features

- ◆ 0 - 480mA current programming range
- ◆ PWM or Logic programming / dimming
- ◆ Wide 4.5 to 20VDC input range
- ◆ Non Isolated
- ◆ Wide temperature range



### Key Market Segments & Applications



LED



RoHS

### Specifications

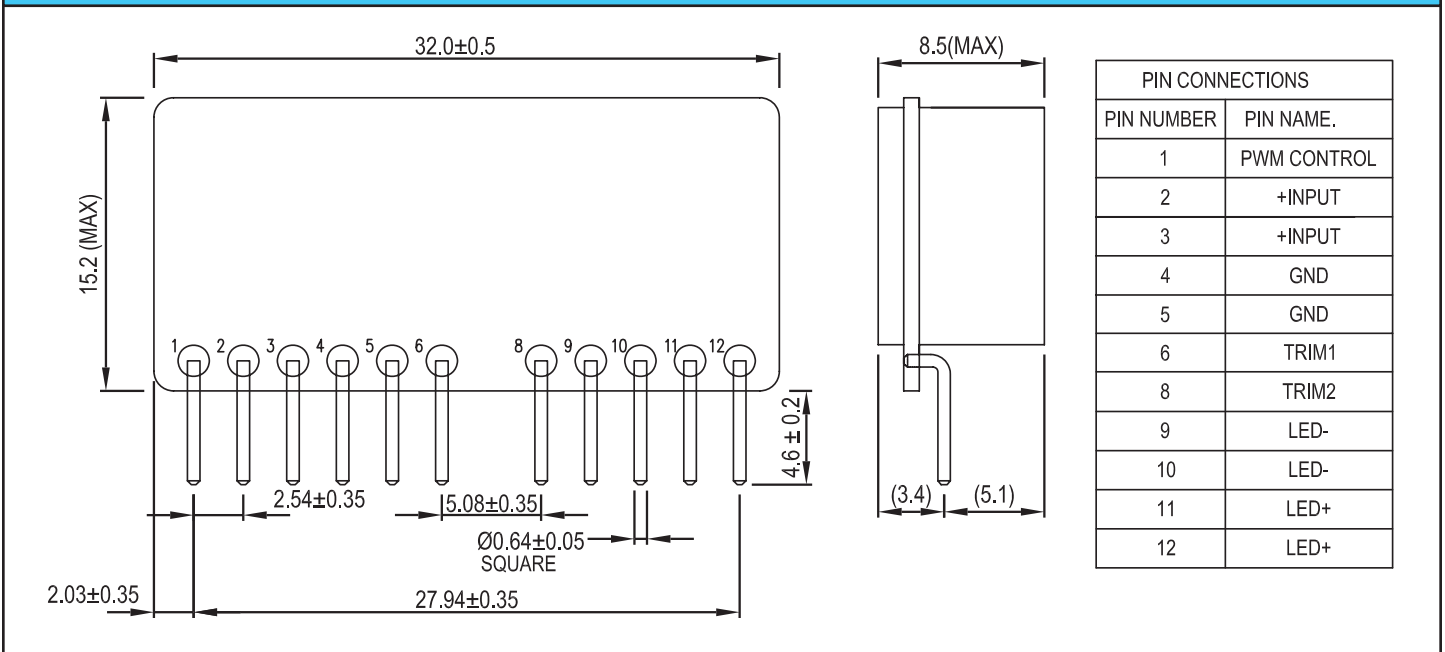
| Model                               |        | LEDC10-12-R48  |
|-------------------------------------|--------|--|
| DC Input                            | VDC    | 4.5 - 20V, nominal 12V   |
| Input Current (Nominal Input Volt.) | mA     | 920mA full load, 7mA off load  |
| Temperature Coefficient             | -      | <0.02%/°C  |
| Ripple and Noise                    | mV     | 150mV (peak to peak)   |
| Overcurrent Protection              | -      | Yes, indefinite. Auto recovery   |
| Overvoltage Protection              | VDC    | 26 - 30V (clamp)   |
| Turn on time                        | ms     | < 100ms  |
| Output current rise and fall times  | us     | 3us  |
| Maximum capacitive load             | nF     | 100nF  |
| Efficiency                          | %      | 87% typical at full load, nominal input                                  |
| Operating Temperature               | -      | -40 to +85°C (Full load)   |
| Storage Temperature                 | °C     | -40 to +125°C  |
| Operating Humidity (1)              | -      | 5 - 95% RH   |
| Storage Humidity (1)                | -      | 5 - 95% RH   |
| Cooling                             | -      | Convection   |
| Input to Output Isolation           | -      | None   |
| Vibration (non operating)           | -      | 10 - 55Hz: 19.6m/s <sup>2</sup> constant sweep 1 min X, Y, Z for 30 mins |
| Shock (In shipping package)         | -      | < 196.1 m/s <sup>2</sup> (20G)   |
| Weight (Typ)                        | g      | 6  |
| Size (LxWxH)                        | in(mm) | 1.26 x 0.33 x 0.6" (32 x 8.5 x 15.2mm)                                   |
| Warranty                            | yrs    | Three Years  |

(1) Non condensing

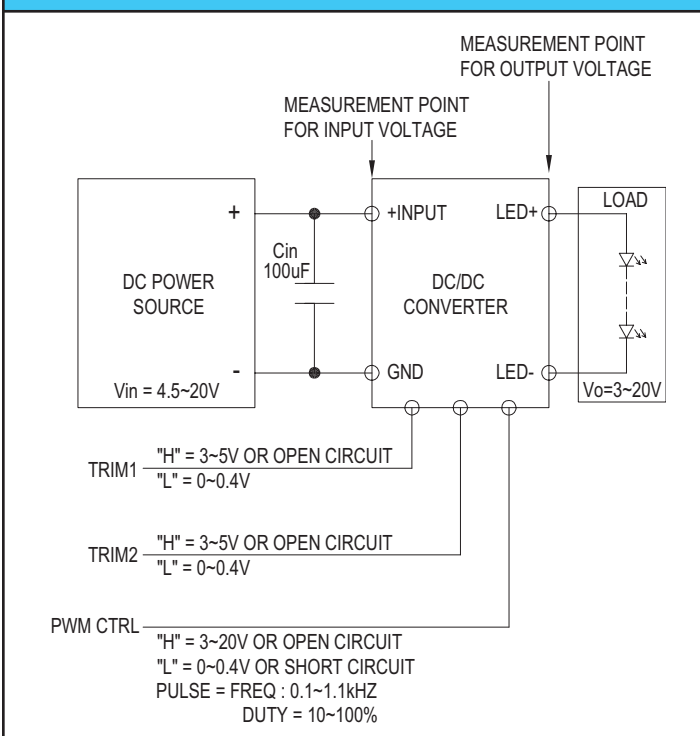
## Model Selector

| Model         | CV/CC | Output Voltage (V) | Input Voltage (V) | Output Accuracy                 | Output Current (A) | Maximum Output Power (W) |
|---------------|-------|--------------------|-------------------|---------------------------------|--------------------|--------------------------|
| LEDC10-12-R48 | CC    | 3 - 20VDC          | 4.5 - 9VDC        | ±5% (±10% for 50mA programming) | 0.35A              | 7W                       |
|               |       |                    | 9 - 20VDC         |                                 | 0.48A              | 9.6W                     |

## Outline Drawing



## Basic Connection



## Output Current Setting

| Logic | Output current | Trim 1 logic level | Trim 2 logic level |
|-------|----------------|--------------------|--------------------|
|       | 50mA           | 0                  | 0                  |
|       | 150mA          | 0                  | 1                  |
|       | 350mA          | 1                  | 0                  |
|       | 480mA          | 1                  | 1                  |

Logic "0" = 0 - 0.4V  
Logic "1" = 3 - 5V or open

| PWM Control         |                          |
|---------------------|--------------------------|
| Duty cycle          | 10 - 100%                |
| Frequency           | 0.1 - 1.1kHz             |
| "On" voltage range  | 3 - 20V or open          |
| "Off" voltage range | 0 - 0.4V or short to GND |

(Leave open if PWM is not used)

For Additional Information, please visit [us.tdk-lambda.com/lp/products/led10-series.htm](http://us.tdk-lambda.com/lp/products/led10-series.htm)

