

# ECONOLINE - DC/DC-Converter

REC10-S/DRWL(Z) Ser., 10W, 1"x 2", Regul., Wide Input 2:1 & 4:1 (Single & Dual Output)

RECOM

## Features

- 10W DIL Package
- 9-18V, 18-36V, 36-72V and 9-36, 18-72 Wide Input Range
- Short Circuit Protection
- Regulated Output
- UL94V-0 Package Material
- Efficiency to 81%
- Remote ON/OFF-Control for Single Types



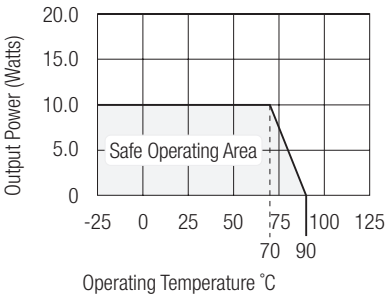
## Selection Guide

| Part Number<br>1" x 2" | Input Voltage<br>(VDC) | Output Voltage<br>(VDC) | Output Current<br>(mA) | Efficiency<br>(%) |
|------------------------|------------------------|-------------------------|------------------------|-------------------|
| REC10-XX05SRWL         | 9-18, 18-36, 36-72     | 5                       | 2000                   | 78                |
| REC10-XX12SRWL         | 9-18, 18-36, 36-72     | 12                      | 830                    | 81                |
| REC10-XX15SRWL         | 9-18, 18-36, 36-72     | 15                      | 670                    | 81                |
| REC10-XX24SRWL         | 9-18, 18-36, 36-72     | 24                      | 416                    | 82                |
| REC10-XX05DRWL         | 9-18, 18-36, 36-72     | ±5                      | ±1000                  | 78                |
| REC10-XX12DRWL         | 9-18, 18-36, 36-72     | ±12                     | ±416                   | 81                |
| REC10-XX15DRWL         | 9-18, 18-36, 36-72     | ±15                     | ±333                   | 82                |
| REC10-XX05SRWLZ        | 9-36, 18-72            | 5                       | 2000                   | 79                |
| REC10-XX12SRWLZ        | 9-36, 18-72            | 12                      | 830                    | 80                |
| REC10-XX15SRWLZ        | 9-36, 18-72            | 15                      | 670                    | 81                |
| REC10-XX24SRWLZ        | 9-36, 18-72            | 24                      | 416                    | 79                |
| REC10-XX05DRWLZ        | 9-36, 18-72            | ±5                      | ±1000                  | 78                |
| REC10-XX12DRWLZ        | 9-36, 18-72            | ±12                     | ±416                   | 81                |
| REC10-XX15DRWLZ        | 9-36, 18-72            | ±15                     | ±333                   | 81                |

XX = 9-18Vin = 12  
XX = 18-36Vin = 24  
XX = 36-72Vin = 48  
XX = 9-36Vin = 24  
XX = 18-72Vin = 48

## Specifications (core operating area) and Operating Temperature / Derating-Graph

|   |                            |
|---|----------------------------|
| Voltage Setting Accuracy                  | ±1% max.                   |
| Temperature Coefficient                   | ±0.02%/°C                  |
| Ripple and Noise (20MHz BW)               | 100mVp-p max.              |
| Line Regulation (HL-LL)                   | 0.2% max.                  |
| Load Regulation (Rated Load to no Load)   | 0.5% max.                  |
| Voltage Stability (24 Hrs)                | ±0.05%                     |
| Short Circuit Protection                  | Continuous                 |
| Cooling                                   | Free-Air Convection        |
| Input Filter                              | Pi Network                 |
| Efficiency                                | 75% min.                   |
| Isolation Voltage (Tested for 60 Seconds) | 1.000VDC min.              |
| Isolation Resistance                      | 10 <sup>9</sup> ohms min.  |
| Switching Frequency at Full Load          | 200kHz min.                |
| Operating Temperature                     | -25°C to +70°C (see Graph) |
| Storage Temperature                       | -40°C to +100°C            |
| Case Material                             | Metal Case                 |



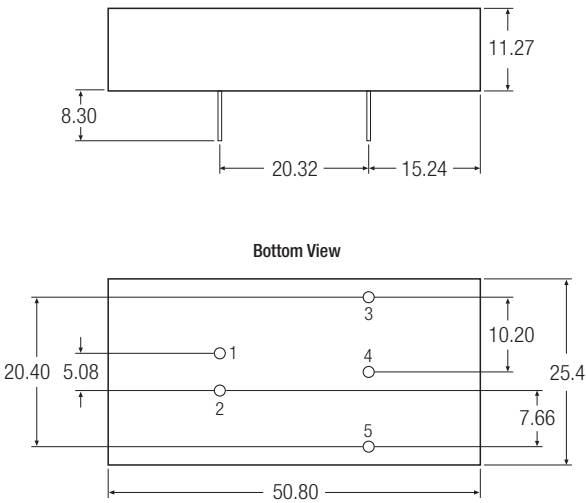
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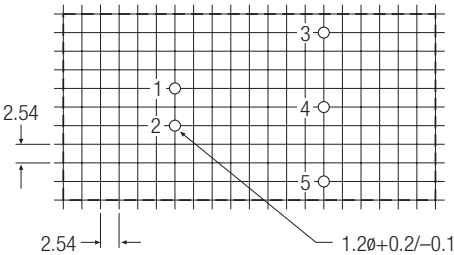
## Package Style and Pinning (mm)

1" x 2" PIN Package



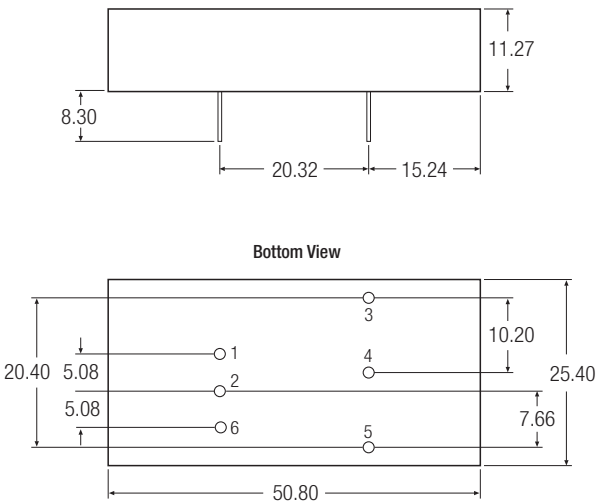
| Pin Connections |        |        |
|-----------------|--------|--------|
| Pin #           | Single | Dual   |
| 1               | + Vin  | + Vin  |
| 2               | - Vin  | - Vin  |
| 3               | + Vout | + Vout |
| 4               | No Pin | Common |
| 5               | - Vout | - Vout |

Recommended Footprint Details



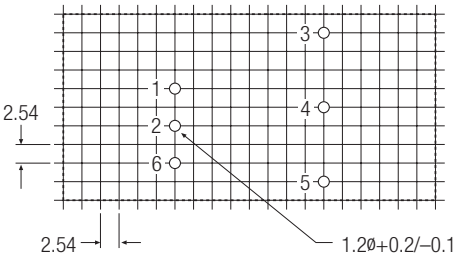
## REC10-Series also available with Remote ON/OFF - Control

For detailed information please contact your RECOM representative.



| Pin Connections |               |
|-----------------|---------------|
| Pin #           | Single        |
| 1               | + Vin         |
| 2               | - Vin         |
| 3               | + Vout        |
| 4               | No Pin        |
| 5               | - Vout        |
| 6               | Remote ON/OFF |

Recommended Footprint Details



XX.X ± 0.5 mm  
XX.XX ± 0.25 mm