

# ECONOLINE - DC/DC-Converter

REC2.2-SU and DU Series, 2.2 Watt, DIP24, (Single & Dual Output)

# RECOM

## Features

- 500VDC Isolation
- High Efficiency
- No Extern. Components Required
- UL94V-0 Package Material

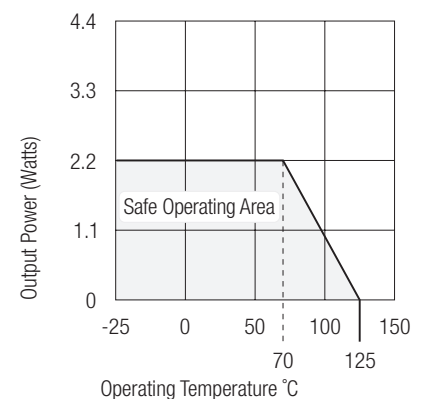


## Selection Guide

| Part Number<br>DIP24 | Input Voltage<br>(VDC) | Output Voltage<br>(VDC) | Output Current<br>(mA) | Efficiency<br>(%) |
|----------------------|------------------------|-------------------------|------------------------|-------------------|
| REC2.2-XX3.3SU       | 5, 12, 24              | 3.3                     | 666                    | 72                |
| REC2.2-XX05SU        | 5, 12, 24              | 5                       | 400                    | 75                |
| REC2.2-XX12SU        | 5, 12, 24              | 12                      | 180                    | 78                |
| REC2.2-XX15SU        | 5, 12, 24              | 15                      | 150                    | 80                |
| REC2.2-XX24SU        | 5, 12, 24              | 24                      | 92                     | 80                |
| REC2.2-XX3.3DU       | 5, 12, 24              | ±3.3                    | ±333                   | 72                |
| REC2.2-XX05DU        | 5, 12, 24              | ±5                      | ±200                   | 75                |
| REC2.2-XX12DU        | 5, 12, 24              | ±12                     | ±90                    | 78                |
| REC2.2-XX15DU        | 5, 12, 24              | ±15                     | ±75                    | 80                |
| REC2.2-XX24DU        | 5, 12, 24              | ±24                     | ±46                    | 80                |

## Specifications (Core Operating Area) and Operating Temperature / Derating-Graph

|  |                                      |
|--|--------------------------------------|
| Input Voltage                                  | ±10%                                 |
| Output Accuracy                                | ±5%                                  |
| Line Voltage Regulation                        | 1.2%/1%V Input                       |
| Output Power                                   | 2.2 Watt max.                        |
| Load Voltage Regulation (10% - 100% Full Load) | ±10%                                 |
| Ripple and Noise (20MHz limited)               | 100mVp-p max.                        |
| Efficiency at Full Load                        | 70% min.                             |
| Isolation Resistance (Viso = 500VDC)           | 10 GΩ min.                           |
| Isolation Capacitance                          | 100pF min./1.2nF max.                |
| Isolation Voltage                              | 500VDC min.                          |
| Short Circuit Protection                       | Short Term                           |
| Switching Frequency at Full Load               | 31kHz min. / 85kHz max.              |
| Operating Temperature                          | -25°C to +70°C (see Graph)           |
| Storage Temperature                            | -55°C to +125°C                      |
| Package Weight                                 | Single type 12.2g<br>Dual type 12.3g |



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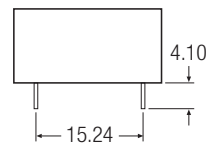
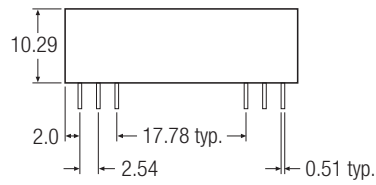
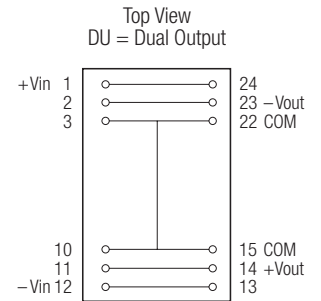
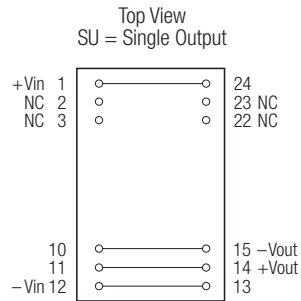
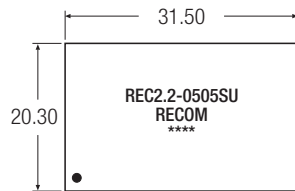
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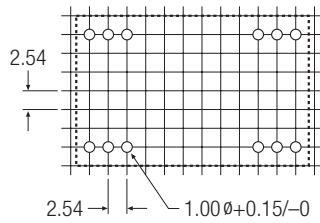
## Package Style and Pinning (mm)

### 24 PIN DIP Package

3rd angle projection 



### Recommended Footprint Details



XX.X ± 0.5 mm  
XX.XX ± 0.25 mm