

ECONOLINE - DC/DC-Converter

REC15-S/DRWB(Z) Ser., 15W, 2" x 2", Regul., Wide Input 2:1 & 4:1 (Single & Dual Output)

RECOM

Selection Guide

| Part Number 2" x 2" | Input Voltage (VDC) | Output Voltage (VDC) | Output Current (mA) | Efficiency (%) |
|------------------------|------------------------|-------------------------|------------------------|-------------------|
| REC15-XX05SRWB | 9-18, 18-36, 36-72 | 5 | 3000 | 77 |
| REC15-XX12SRWB | 9-18, 18-36, 36-72 | 12 | 1250 | 80 |
| REC15-XX15SRWB | 9-18, 18-36, 36-72 | 15 | 1000 | 80 |
| REC15-XX24SRWB | 9-18, 18-36, 36-72 | 24 | 625 | 81 |
| REC15-XX05DRWB | 9-18, 18-36, 36-72 | ±5 | ±1500 | 77 |
| REC15-XX12DRWB | 9-18, 18-36, 36-72 | ±12 | ±625 | 80 |
| REC15-XX15DRWB | 9-18, 18-36, 36-72 | ±15 | ±500 | 80 |
| REC15-XX05SRWBZ | 9-36, 18-72 | 5 | 3000 | 77 |
| REC15-XX12SRWBZ | 9-36, 18-72 | 12 | 1250 | 80 |
| REC15-XX15SRWBZ | 9-36, 18-72 | 15 | 1000 | 80 |
| REC15-XX24SRWBZ | 9-36, 18-72 | 24 | 625 | 77 |
| REC15-XX05DRWBZ | 9-36, 18-72 | ±5 | ±1500 | 80 |
| REC15-XX12DRWBZ | 9-36, 18-72 | ±12 | ±625 | 80 |
| REC15-XX15DRWBZ | 9-36, 18-72 | ±15 | ±500 | 79 |

XX = 9-18Vin = 12

XX = 18-36Vin = 24

XX = 36-72Vin = 48

XX = 9-36Vin = 24

XX = 18-72Vin = 48

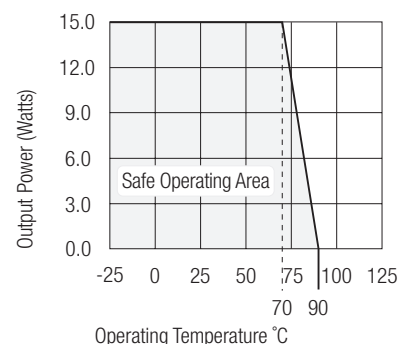


Features

- 15W 2" x 2" Package
- 9-18V, 18-36V, 36-72V and 9-36V, 18-72V Wide Input Range
- Short Circuit Protection
- Regulated Output
- UL94V-0 Package Material
- Efficiency to 80%

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) | 0.05% max. |
| Voltage Stability (24 Hrs) | ±0.5% |
| 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 ⁹ 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 |



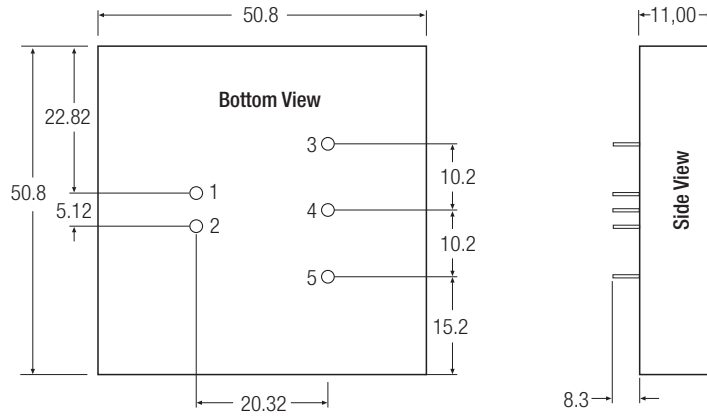
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Package Style and Pinning (mm)

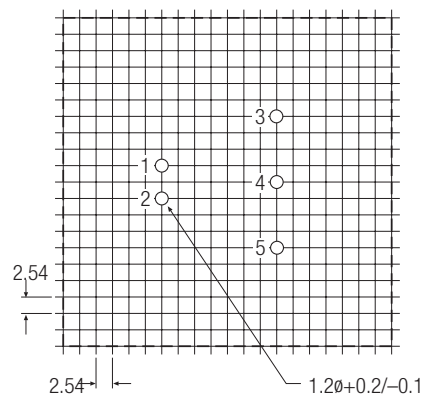
2" x 2" Package



Pin Connections

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

Recommended Footprint Details



XX.X ± 0.5 mm
XX.XX ± 0.25 mm