

Features

Regulated Converters

- 15W 1" x 2" Package (50.1x25.4x10.8mm)
- 1.6kVDC Isolation
- Wide Input 2:1 & 4:1
- Regulated Output
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- Remote ON/OFF-Control for Single Types
- Efficiency to 87%

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
REC15-xx3.3SRW/H	9-18, 18-36, 36-75	3.3	3000	77-79
REC15-xx05SRW/H	9-18, 18-36, 36-75	5	3000	80-83
REC15-xx12SRW/H	9-18, 18-36, 36-75	12	1250	82-86
REC15-xx15SRW/H	9-18, 18-36, 36-75	15	1000	84-87
REC15-xx24SRW/H	9-18, 18-36, 36-75	24	625	84-87
REC15-xx3.3SRWZ/H	9-36, 18-75	3.3	3000	76
REC15-xx05SRWZ/H	9-36, 18-75	5	3000	78-82
REC15-xx12SRWZ/H	9-36, 18-75	12	1250	82-84
REC15-xx15SRWZ/H	9-36, 18-75	15	1000	83-84
REC15-xx05DRWZ/H	10-40, 18-75	±5	±1500	78
REC15-xx12DRWZ/H	10-40, 18-75	±12	±625	79
REC15-xx15DRWZ/H	10-40, 18-75	±15	±500	79

2:1

xx = 9-18Vin = 12
xx = 18-36Vin = 24
xx = 36-75Vin = 48

4:1

xx = 9-36Vin = 24
xx = 10-40Vin = 24
xx = 18-75Vin = 48

* add suffix "CTRL" for optional Remote ON/OFF-Control

Specifications (Core Operating Area)

Input Voltage Range	2:1 & 4:1
Input Filter	π type
Output Voltage Accuracy	±2% max.
Line Voltage Regulation	±0.5% max.
Load Voltage Regulation (10% to 100% full load)	±1% max.
Minimum Load	3.3, 5, ±3.3, ±5Vout 12, 15, 24V, ±12, ±15Vout
Ripple	<0.2% Vout +40mVp-p max.
Noise	<0.5% Vout +50mVp-p max.
Operating Frequency	300kHz typ.
Over Power Protection	Works over 120% of rating and recovers automatically
Over Voltage Protection	Zener diode clamp
Short Circuit Protection	Current limit, auto-recovery
Efficiency at Full Load	87% max.
Isolation Voltage	(tested for 1 second) 1600VDC min.
Rated Working Voltage	(long term isolation) see Application Notes
Isolation Capacitance	1000pF
Isolation Resistance	100 M Ω min.

continued on next page

ECONOLINE

DC/DC-Converter

REC15-S_DRW(Z)/H Series

15 Watt

1" x 2"

Single & Dual Output

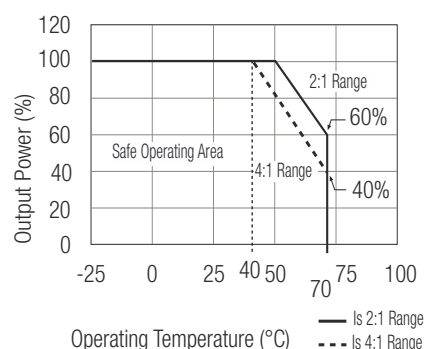


Designed to meet EN-60950-1

UL-60950-1 Pending



Derating-Graph (Ambient Temperature)

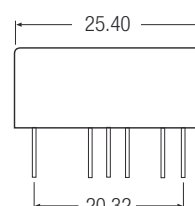
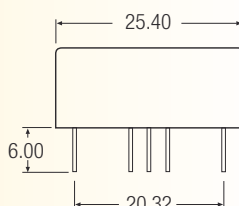
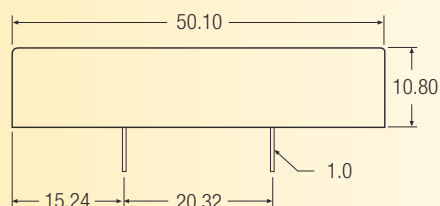


Specifications (Core Operating Area) cont.

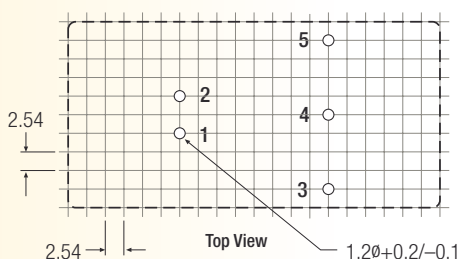
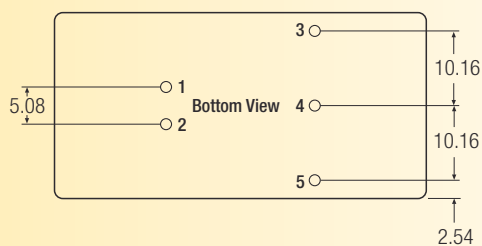
IOperating Temperature Range (Natural convection)	2:1	-25°C to +70°C (see Graph)
(with derating)	4:1	-25°C to +70°C (see Graph)
Storage Temperature Range		-55°C to +105°C
Case Temperature		+100°C max.
Temperature Coefficient		±0.02%/°C
Relative Humidity		95% RH
Case Material	Nickel Plated Copper with Non-Conductive Base, Six-side Shielded	
Cooling Method	Natural convection	
Package Weight	32g	
EMI (Conducted & Radiated Emission)	EN 55022 class A	
MTBF (+25°C)	} Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F 800 x 10 ³ hours
(+40°C)		using MIL-HDBK 217F 245 x 10 ³ hours

Package Style and Pinning (mm) 1" x 2", Wide Input 2:1 & 4:1

1" x 2" PIN Package



Recommended Footprint Details



Pin Connections

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

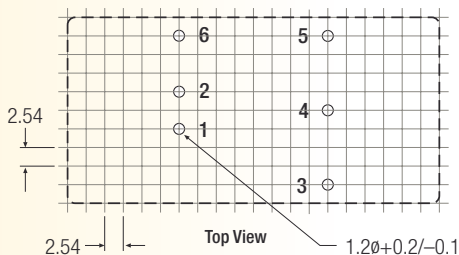
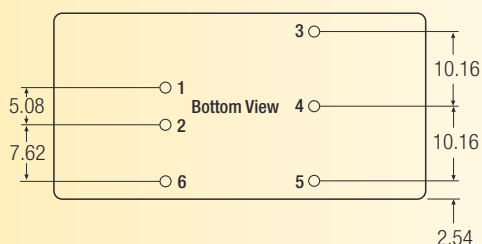
XX.X ± 0.5 mm
XX.XX ± 0.25 mm

REC15-Series also available with Remote ON/OFF - Control

For detailed information please contact your RECOM representative.

REC15-S_DRW(Z)/H/CTRL

Recommended Footprint Details



Pin Connections

Pin #	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	Com
5	-Vout	-Vout
6	CTRL	CTRL

XX.X ± 0.5 mm
XX.XX ± 0.25 mm