

Features

Regulated Converters

- 10W 1" x 2" Package (50.8x25.4x11.27mm)
- 1kVDC 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 82%

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
REC10-xx05SRWL	9-18, 18-36, 36-72	5	2.000	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	±1.000	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	2.000	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	±1.000	78
REC10-xx12DRWLZ	9-36, 18-72	±12	±416	81
REC10-xx15DRWLZ	9-36, 18-72	±15	±333	81

2:1

4:1

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

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

xx = 9-36Vin = 24
 xx = 18-72Vin = 48

Specifications (Core Operating Area)

Input Voltage Range	2:1 & 4:1	
Output Voltage Accuracy	±2% max.	
Line Voltage Regulation	±0.2% max.	
Load Voltage Regulation (10% to 100% full load)	±0.2% max.	
Output Ripple and Noise (at 20MHz BW)	100mVp-p max.	
Operating Frequency	200kHz typ.	
Efficiency at Full Load	75% max.	
Isolation Voltage	(tested for 1 second)	1.000VDC min.
Rated Working Voltage	(long term isolation)	see Application Notes
Isolation Capacitance	500pF max	
Isolation Resistance	1 GΩ min.	
Short Circuit Protection	Continuous	
Operating Temperature Range (free air convection)	-25°C to +70°C (see Graph)	
Storage Temperature Range	-55°C to +100°C	
Relative Humidity	MSL Level 1	95% RH
Case Material	Metal Case	
Package Weight	31.2 g	
MTBF (+25°C)	} Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F
(+70°C)		using MIL-HDBK 217F
		700 x 10 ³ hours
		560 x 10 ³ hours

ECONOLINE

DC/DC-Converter

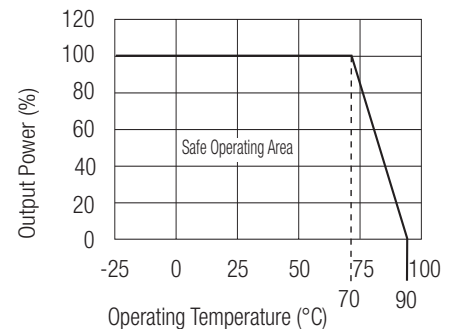
REC10-S_DRWL(Z) Series

**10 Watt
1" x 2"
Single &
Dual Output**



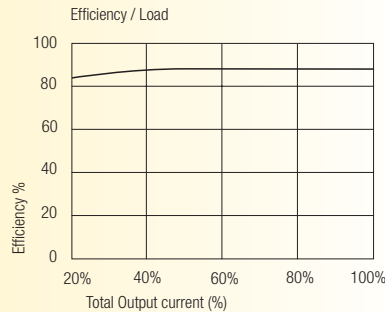
RECOM

Derating-Graph (Ambient Temperature)



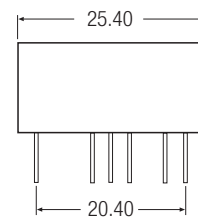
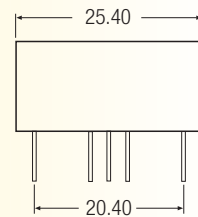
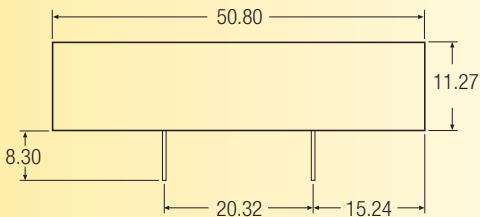
Typical Characteristics

REC10 - types

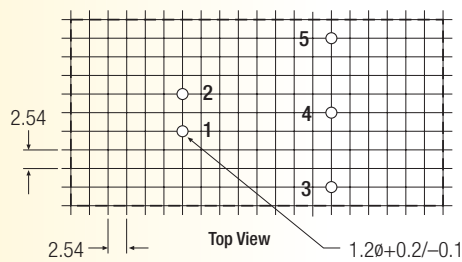
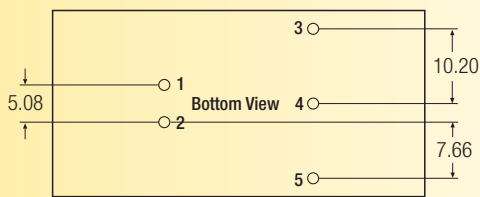


Package Style and Pinning (mm) 1" x 2", Wide Input 2:1 & 4:1

1" x 2" PIN Package



Recommended Footprint Details



Pin Connections

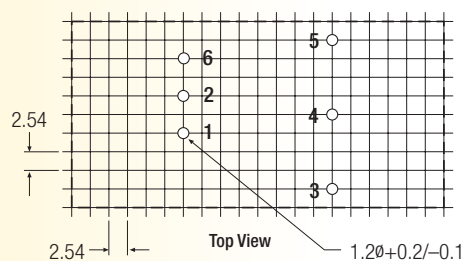
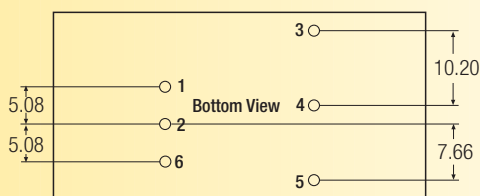
Pin #	Single	Dual
1	+ Vin	+ Vin
2	- Vin	- Vin
3	+ Vout	+ Vout
4	No Pin	Com
5	- Vout	- Vout

XX.X ± 0.5 mm
XX.XX ± 0.25 mm

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

For detailed information please contact your RECOM representative.

Recommended Footprint Details



Pin Connections

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

XX.X ± 0.5 mm
XX.XX ± 0.25 mm