

ECONOLINE - DC/DC-Converter

RBM Series, 1 Watt, SIP7 Micro Size Package (Single & Dual Output)



RECOM

Features

- New Micro Size SIP7 Package
- 3kVDC Isolation
- Efficiency at Full Load up to 80%
- Operating Temperature Range -40°C to +85°C
- UL 94V-0 Package Material
- Industrie Standard Pinout
- Custom Solutions Available
- Cost Effective
- Short Lead Times



Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
RBM-XX05S	5, 9, 12, 15, 24	5	200
RBM-XX09S	5, 9, 12, 15, 24	9	111
RBM-XX12S	5, 9, 12, 15, 24	12	83
RBM-XX15S	5, 9, 12, 15, 24	15	66
RBM-XX05D	5, 9, 12, 15, 24	±5	100
RBM-XX09D	5, 9, 12, 15, 24	±9	55
RBM-XX12D	5, 9, 12, 15, 24	±12	41
RBM-XX15D	5, 9, 12, 15, 24	±15	33

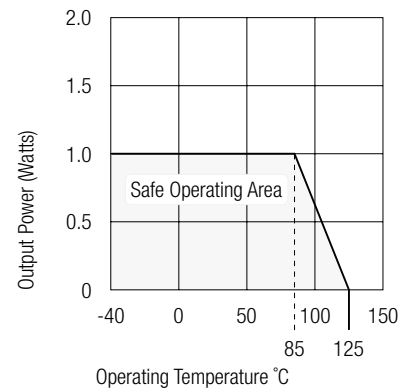
Description

The RBM Micro Size DC/DC-Converter complements Recom's industrial range of converters. This range is widely used for pcb distributed power systems and combines small package size, high efficiency, 3kVDC isolation and low output ripple.

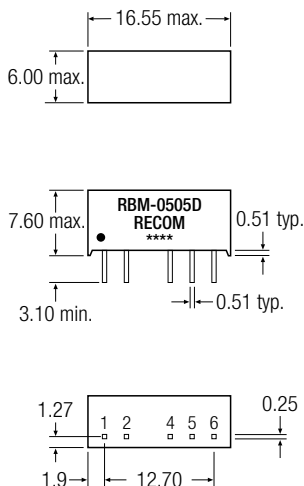
The extended operating temperature range covering -40°C to +85°C is a standard feature. The full rated power can be taken from a single pin of this dual output converter, provided this does not exceed 1 Watt.

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

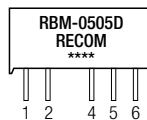
Input Voltage	±10%
Input Filter	Capacitor type
Input Voltage (VIN = 5VDC, I _o = ± 100mA)	±5%
Output Accuracy	±5%
Line Voltage Regulation	1,2%/1% V Input
Load Voltage Regulation (10% to 100% full load)	12% max.
Ripple and Noise (20MHz limited)	50mVpp max.
Efficiency at Full Load	70% min.
Isolation Voltage	3000 VDC min.
Short Circuit Protection	1 sec.
Switching Frequency at Full Load	50kHz min. / 94kHz max.
Operating Temperature	-40°C to +85°C (see Graph)
Storage Temperature	-55°C to +125°C



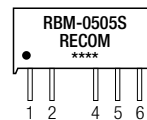
Package Style and Pinning (mm)



Double Output



Single Output



Pin Connections

Pin #	Single	Double
1	+Vin	+Vin
2	-Vin	-Vin
4	NC	+Vout
5	0V	0V
6	+Vout	+Vout

NC = No Connection

XX.X ± 0.5 mm
XX.XX ± 0.25 mm