

ECONOLINE - DC/DC-Converter

RBM Series, 1 Watt, SIP6 Micro Size Package (Single & Dual Output)



RECOM

Features

- New Micro Size SIP6 Package
- 3kVDC Isolation
- Efficiency at Full Load up to 80%
- Oper. Temp. Range -40°C to +85°C
- UL 94V-0 Package Material
- Industrie Standard Pinout



Selection Guide

Part Number SIP6 Micro Size Package	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
RBM-XX1.8S	1.8, 3.3, 5, 9, 12, 15, 24	1.8	555
RBM-XX3.3S	1.8, 3.3, 5, 9, 12, 15, 24	3.3	303
RBM-XX05S	1.8, 3.3, 5, 9, 12, 15, 24	5	200
RBM-XX09S	1.8, 3.3, 5, 9, 12, 15, 24	9	111
RBM-XX12S	1.8, 3.3, 5, 9, 12, 15, 24	12	83
RBM-XX15S	1.8, 3.3, 5, 9, 12, 15, 24	15	66
RBM-XX24S	1.8, 3.3, 5, 9, 12, 15, 24	24	42
RBM-XX1.8D	1.8, 3.3, 5, 9, 12, 15, 24	±1.8	±278
RBM-XX3.3D	1.8, 3.3, 5, 9, 12, 15, 24	±3.3	±152
RBM-XX05D	1.8, 3.3, 5, 9, 12, 15, 24	±5	±100
RBM-XX09D	1.8, 3.3, 5, 9, 12, 15, 24	±9	±55
RBM-XX12D	1.8, 3.3, 5, 9, 12, 15, 24	±12	±41
RBM-XX15D	1.8, 3.3, 5, 9, 12, 15, 24	±15	±33
RBM-XX24D	1.8, 3.3, 5, 9, 12, 15, 24	±24	±21

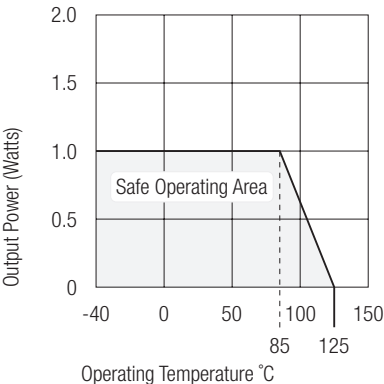
Description

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

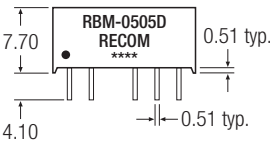
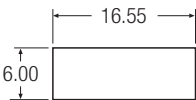
Input Voltage	±10%	
Input Filter	Capacitor type	
Output Accuracy	±5%	
Line Voltage Regulation	1,2%/1% V Input	
Load Voltage Regulation (10% to 100% full load)	1.8V, 3.3V output types 5V output type 9V, 12V, 15V, 24V output types	20% max. 15% max. 10% max.
Ripple and Noise (20MHz limited)	100mVp-p max.	
Efficiency at Full Load	70% min.	
Isolation Voltage	3000 VDC min.	
Isolation Resistance (Viso = 500VDC)	15 GΩ min.	
Isolation Capacitance	20pF min./65pF max.	
Short Circuit Protection	1 sec.	
Switching Frequency at Full Load	100kHz typ.	
Operating Temperature	-40°C to +85°C (see Graph)	
Storage Temperature	-55°C to +125°C	
Package Weight	1.3g	



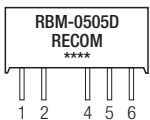


Package Style and Pinning (mm)

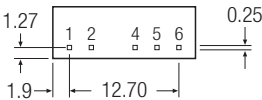
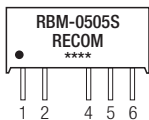
6 PIN SIP Micro Size Package



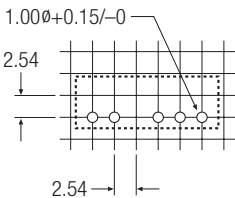
Dual Output



Single Output



Recommended Footprint Details



Pin Connections

Pin #	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
4	NC	-Vout
5	-Vout	Com
6	+Vout	+Vout
NC = No Connection		

XX.X ± 0.5 mm
XX.XX ± 0.25 mm