

# ECONOLINE - DC/DC-Converter

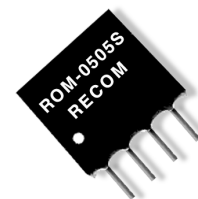
ROM Series, 1 Watt, SIP4 Micro Size Package (Single Output)



# RECOM

## Features

- New Micro Size SIP4 Package
- 3kVDC Isolation
- Efficiency at Full Load up to 80%
- Oper. Temp. Range  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- UL 94V-0 Package Material
- Industry Standard Pinout
- Custom Solutions Available
- Cost Effective



## Selection Guide

Part Number SIP4 Micro Size Pack.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
ROM-XX1.8S	1.8, 3.3, 5, 9, 12, 15, 24	1.8	555
ROM-XX3.3S	1.8, 3.3, 5, 9, 12, 15, 24	3.3	303
ROM-XX05S	1.8, 3.3, 5, 9, 12, 15, 24	5	200
ROM-XX09S	1.8, 3.3, 5, 9, 12, 15, 24	9	111
ROM-XX12S	1.8, 3.3, 5, 9, 12, 15, 24	12	83
ROM-XX15S	1.8, 3.3, 5, 9, 12, 15, 24	15	66
ROM-XX24S	1.8, 3.3, 5, 9, 12, 15, 24	24	41

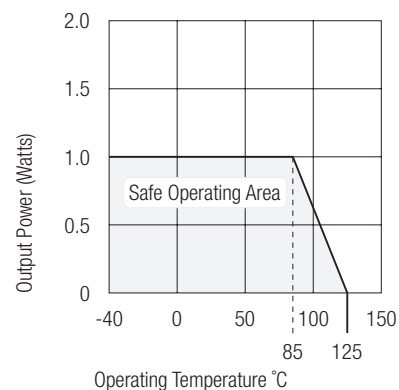
## Description

The ROM Micro Size DC/DC-Converter has been designed for isolating resp. converting DC Power Rails. It provides a small micro-size package, high efficiency, low output ripple, high 3kVDC Isolation and an extended  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  operating temperature range.

State of the art packaging and automated manufacturing ensures cost-effectiveness and short lead times.

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

Input Voltage	$\pm 10\%$	
Input Filter	Capacitor type	
Output Accuracy	$\pm 5\%$	
Line Voltage Regulation	1,2%/1% V Input	
Load Voltage Regulation (10% to 100% full load)	1.8V, 3.3V output types	20% max.
	5V output type	15% max.
	9V, 12V, 15V, 24V output types	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 G $\Omega$ min.	
Isolation Capacitance	20pF min./75pF max.	
Short Circuit Protection	1 sec.	
Switching Frequency at Full Load	100kHz typ.	
Operating Temperature	$-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$ (see Graph)	
Storage Temperature	$-55^{\circ}\text{C}$ to $+125^{\circ}\text{C}$	
Package Weight	1.0g	



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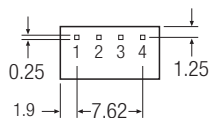
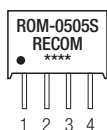
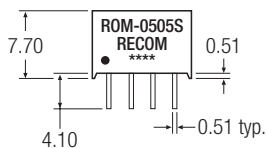
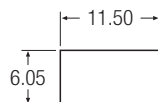
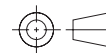


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## Package Style and Pinning (mm)

### 7 PIN SIP Micro Size Package

3rd angle projection

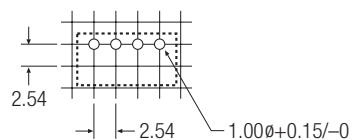


### Pin Connections

Pin #	Single
1	-Vin
2	+Vin
3	-Vout
4	+Vout

NC = No Connection

### Recommended Footprint Details



XX.X ± 0.5 mm  
XX.XX ± 0.25 mm