ECONOLINE - DC/DC-Converter
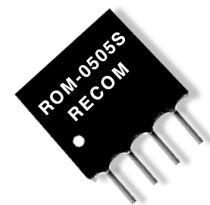## ROM Series, 1 Watt, SIP4 Micro Size Package (Single Output)

New

RECOM

Features

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

Selection Guide

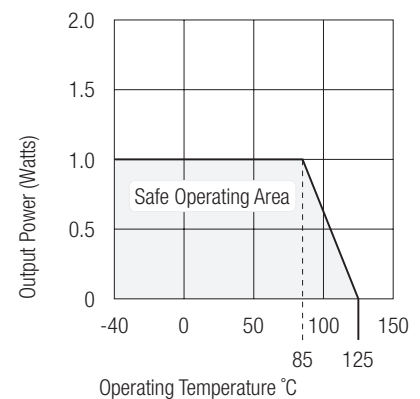| Part Number SIP4 Micro Size Pack.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
ROM-XX1.8S	1.8, 3.3, 5, 9, 12, 15, 24	1.8	555
ROM-XX3.3S	1.8, 3.3, 5, 9, 12, 15, 24	3.3	303
ROM-XX05S	1.8, 3.3, 5, 9, 12, 15, 24	5	200
ROM-XX09S	1.8, 3.3, 5, 9, 12, 15, 24	9	111
ROM-XX12S	1.8, 3.3, 5, 9, 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°C to +85°C operating temperature range.

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

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	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 GΩ min.
Isolation Capacitance		20pF min./75pF 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		1.0g

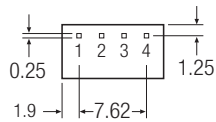# ECONOLINE - DC/DC-Converter

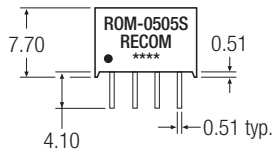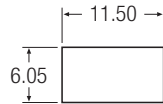## ROM Series, 1 Watt, SIP4 Micro Size Package (Single Output)

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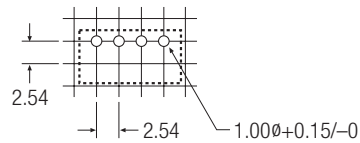## Package Style and Pinning (mm)

7 PIN SIP Micro Size Package

3rd angle projection

← 11.50 →

6.05

7.70

ROM-0505S
RECOM
****

0.51

4.10

→| |← 0.51 typ.

ROM-0505S
RECOM
****

1 2 3 4

0.25

1 2 3 4

1.25

1.9 →| |←7.62→

Pin Connections

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

NC = No Connection

Recommended Footprint Details

2.54

→| |← 2.54   1.00ø+0.15/−0

XX.X   ± 0.5 mm
XX.XX ± 0.25 mm