

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%
- 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)
ROM-XX05S	5, 9, 12, 15, 24	5	200
ROM-XX09S	5, 9, 12, 15, 24	9	111
ROM-XX12S	5, 9, 12, 15, 24	12	83
ROM-XX15S	5, 9, 12, 15, 24	15	66
ROM-XX24S	5, 9, 12, 15, 24	24	41

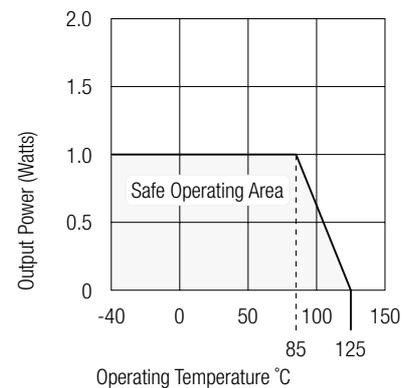
Description

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.

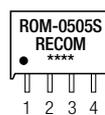
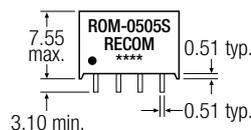
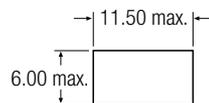
State of the art packaging and automated manu-facturing ensures cost-effectiveness and short lead times.

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

Input Voltage	±10%
Input Filter	Capacitor type
Input Voltage (VIN = 5VDC, Io = ± 84 mA)	±5%
Output Accuracy	±5%
Line Voltage Regulation	1,2%/1% V Input
Load Voltage Regulation (10% to 100% full load)	9.5% max.
Ripple and Noise (20MHz limited)	40mVpp max. / -100mVpp
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



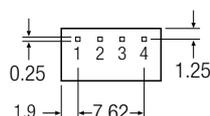
Package Style and Pinning (mm)



Pin Connections

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

NC = No Connection



XX.X ± 0.5 mm
XX.XX ± 0.25 mm