Features

Unregulated Converters

- 1:1 Input Range
- Low Cost 1W Converter
- Efficiency to 75%
- -40°C to +85°C Operating Temperature Range
- **UL Certified**

Selection Guide

Part	Input	Output	Output	
Number	Voltage	Voltage	Current	Efficiency
	(VDC)	(VDC)	(mA)	(typ.)
R0E-0505S	5	5	200	75%

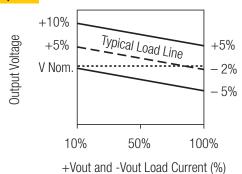
Cn	anitiontiona	/ OF00	A compared to the control of the con-	, full load and after warm-up)
211	PITTIN SHITTING	impaciiron at L _k — 25°L	nominal innuit voitane	THE LOSIC SIDE STOP WARM-HINE
UD	COINCARONS	$\frac{1}{1}$, Hollillal ilibut voltauci	. Tuli load alla alloi walili ubi

- '		
Input Voltage Range		±10% max.
Output Voltage Accuracy		-2% typ., ±5% max.
Line Voltage Regulation	(low line to high line at ma	ax. load) 1.2% typ.
	20% to 100% load (5V ou	utput) 10% max.
Output Ripple and Noise (20MHz BW limited)		52mVp-p typ. / 100mVp-p max.
Operating Frequency (Vin=nominal input)	501	kHz min. / 82kHz typ. / 105kHz max.
Efficiency		75% typ. / 70% min.
Isolation Test Voltage	(tested for 1 second)	1000 VDC min.
	(rated for 1 minute*)	500VAC / 60Hz
Isolation Capacitance		75pF max.
Isolation Resistance	(Viso=500V)	1 G Ω min.
Short-Circuit Protection		1 sec.
Operating Temperature Range		-40°C to +85°C
Storage Temperature		-55°C to +125°C
Relative Humidity		95% RH
Package Weight		1.4g
MTBF (+25°C) \ Detailed Information see	using MIL-HDBK 217F	2400 x 10 ³ hours
MTBF (+85°C) Application Notes chapter "MTBF"	using MIL-HDBK 217F	650 x 10 ³ hours
Certification		
UL General Safety	Report: E358085-A4	UL60950-1

^{*}Any data referred to in this datasheet are of indicative nature and based on our practical experience only. For further details, please refer to our Application Notes

Typical Characteristics

Tolerance Envelope



ECONOLINE

DC/DC-Converter with 3 year Warranty



1 Watt SIP4 **Single Output**

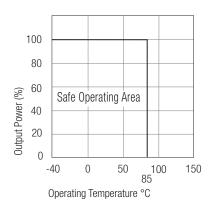






Derating-Graph

(Ambient Temperature)



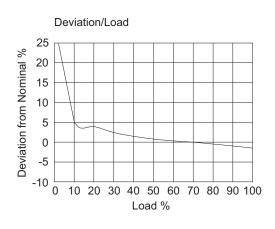
Refer to Application Notes

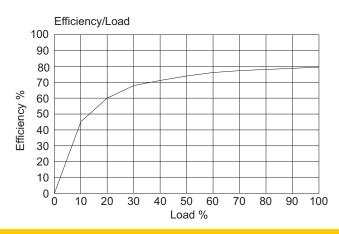
ROE Series

DC/DC-Converter

Typical Characteristics

ROE-0505S





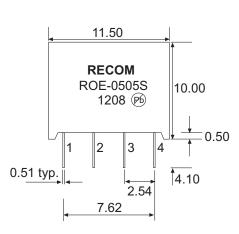
Package Style and Pinning

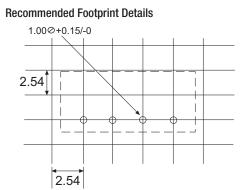
Single SIP 4PIN Package





BOTTOM VIEW





Pin Connections				
Pin #	Function			
1	-Vin			
2	+Vin			
3	-Vout			
4	+Vout			
Unit:	mm			
Tolerance:	\pm 0.25 mm			

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

RECOM: