

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

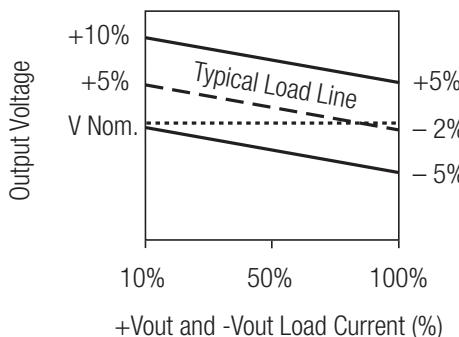
### Specifications (measured at $T_A = 25^\circ\text{C}$ , nominal input voltage, full load and after warm-up)

Input Voltage Range	$\pm 10\%$ max.	
Output Voltage Accuracy	-2% typ., $\pm 5\%$ max.	
Line Voltage Regulation (low line to high line at max. load)	1.2% typ.	
	20% to 100% load (5V output)	10% max.
Output Ripple and Noise (20MHz BW limited)	52mVp-p typ. / 100mVp-p max.	
Operating Frequency (Vin=nominal input)	50kHz 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)	
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 MTBF (+85°C) } Application Notes chapter "MTBF"	using MIL-HDBK 217F	2400 x 10 <sup>3</sup> hours
	using MIL-HDBK 217F	650 x 10 <sup>3</sup> 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

**RECOM**

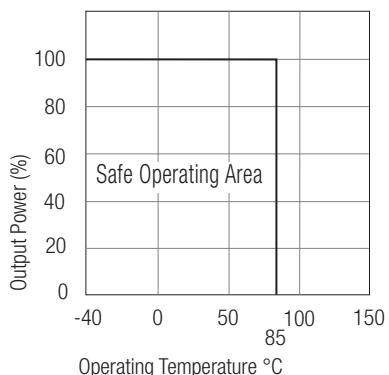
## 1 Watt SIP4 Single Output



**UL-60950-1 Certified**

**ROE**

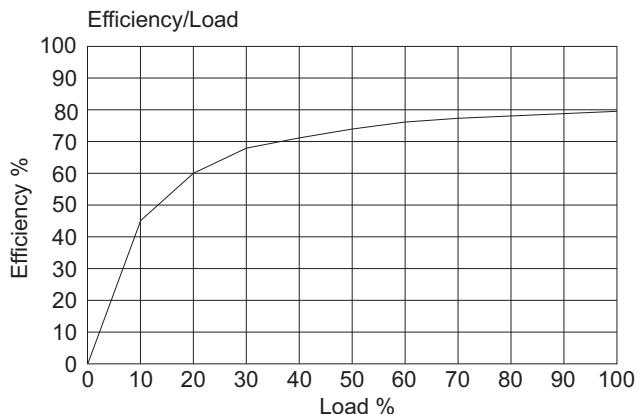
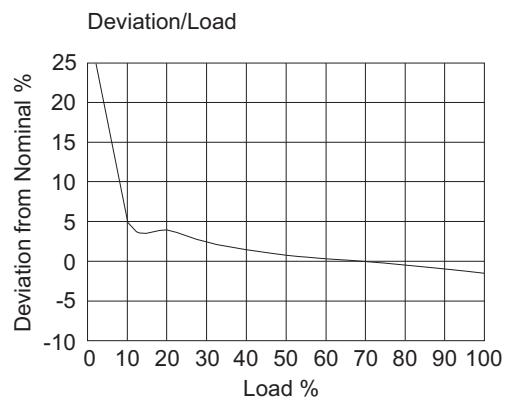
## Derating-Graph (Ambient Temperature)



**Refer to Application Notes**

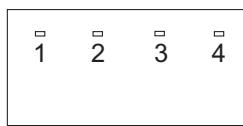
Typical Characteristics

**ROE-0505S**



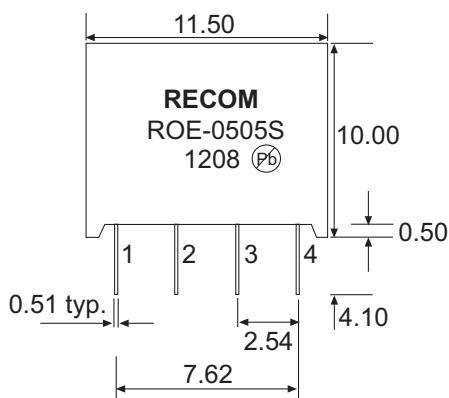
Package Style and Pinning

**Single SIP 4PIN Package**

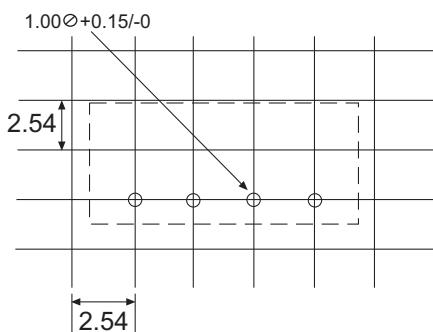


BOTTOM VIEW

**ROE**



Recommended Footprint Details



Pin Connections	
Pin #	Function
1	-Vin
2	+Vin
3	-Vout
4	+Vout

Unit: mm  
Tolerance:  $\pm 0.25$  mm

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# AMEYA360

## Components Supply Platform

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### Contact Us :

#### ➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

#### ➤ Sales :

Direct +86 (21) 6401-6692  
Email amall@ameya360.com  
QQ 800077892  
Skype ameyasales1 ameyasales2

#### ➤ Customer Service :

Email service@ameya360.com

#### ➤ Partnership :

Tel +86 (21) 64016692-8333  
Email mkt@ameya360.com