Features

Unregulated Converters

- 1:1 Input Range
- Low Cost 1W Converter
- Efficiency to 76%
- -40°C to +85°C Operating Temperature Range
- **UL Certified**

Selection Guide

Part	Input	Output	Output	
Number	Voltage	Voltage	Current	Efficiency
SMD	(VDC)	(VDC)	(mA)	(typ.)
RBE-0505S	5	5	200	76%

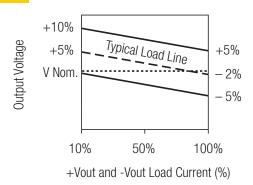
Specifications (measured at $T_A = 25$ °C, nominal input voltage, full load and after warm-up) Input Voltage Range ±10% max.

iliput voitage nali	ye		±10% IIIax.
Output Voltage Ac	curacy		-2% typ., ±5% max.
Line Voltage Regulation		(low line to high line at max. load) 1.2%	
		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			76% typ. / 70% min.
Isolation Test Voltage		(tested for 1 second)	1000 VDC min.
		(rated for 1 minute*)	500VAC / 60Hz
Isolation Capacita	nce		75pF max.
Isolation Resistance		(Viso=500V)	1GΩ min.
Short-Circuit Prote	ection		1 sec.
Operating Temperature Range			-40°C to +85°C
Storage Temperature			-55°C to +125°C
Relative Humidity			95% RH
Package Weight			2.2g
MTBF (+25°C) \	Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F	2400 x 10 ³ hours
MTBF (+85°C)∫		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 SIP7 **Single Output**



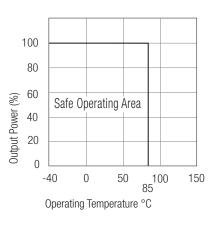




UL-60950-1 Certified

Derating-Graph

(Ambient Temperature)



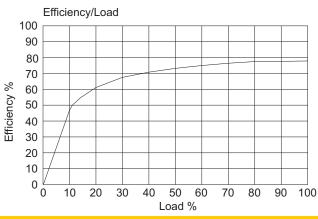
Refer to Application Notes

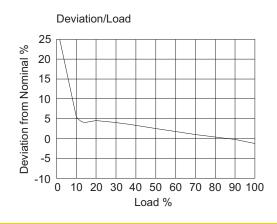
RBE Series

DC/DC-Converter

Typical Characteristics

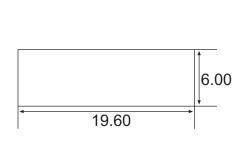
RBE-0505S

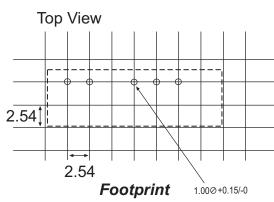


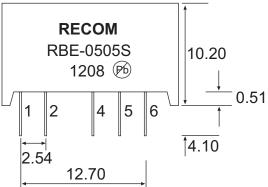


Package Style and Pinning

Single SIP 7PIN Package







Pin Connections				
Pin #	Function			
1	+Vin			
2	-Vin			
4	NC			
5	-Vout			
6	+Vout			
NC = No	Connection			

Unit: mm Tolerance: \pm 0.25 mm