Features

- Low cost 1W converter
- 1:1 input voltage range
- SIP7 package

Unregulated Converters

- Efficiency up to 76%
- -40°C to +85°C operating temperature range
- EN/IEC/UL/CSA 60950-1 certified

Description

The REE-0505S is a low cost 1W DC/DC converters in a standard SIP7 footprint. This makes it suitable for price sensitive industrial, test and measurement and high volume applications. The REE converter is pin-compatible with the RE converter series, but offers only the most popular 0505 voltage combination, offering a simple way to cost-down an existing application. The REE is certified to IEC/EN/UL/CSA/EAC and comes with a 3 year warranty.

Selection Guide	е			
Part Number	Input Voltage [VDC]	Output Voltage [VDC]	Output Current [mA]	Efficiency ⁽¹⁾ max. [%]
REE-0505S	5	5	200	76

Notes:

Note1: Efficiency is tested at nominal input and full load at +25°C ambient

Model Numbering



Specifications (measured @ Ta= 25°C, nominal input voltage, full load and after warm-up)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range			±10%	
Input Surge Voltage	100μs	-0.65VDC		9VDC
Input Current	full load		250mA	
Quiescent Current	nom. Vin= 5VDC		25mA	30mA
Minimum Load (2)		0%		
Internal Operating Frequency		50kHz	82kHz	105kHz
Output Ripple and Noise	20MHz BW		55mVp-p	100mVp-p
Reflected Back Ripple Current	20MHz BW		20mAp-p	

Notes:

Note2: Operation below 10% load won't harm the converter, but specifications may not be met

continued on next page



REE

1 Watt SIP7 Single Output











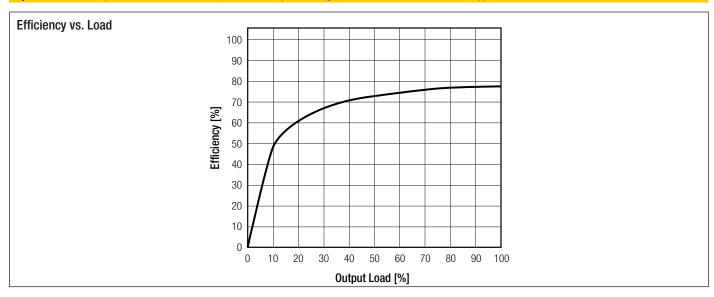
UL60950-1 certified CAN/CSA-C22.2 No 60950-1 certified IEC/EN60950-1 certified EN55032 compliant



REE

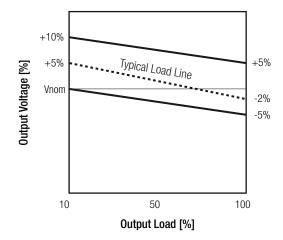
Series

Specifications (measured @ Ta= 25°C, nominal input voltage, full load and after warm-up)

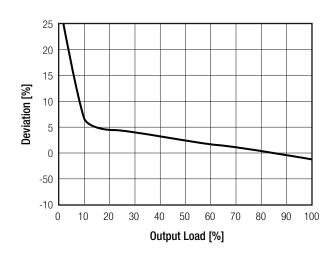


REGULATIONS			
Parameter	Condition	Values	
Output Accuracy		-2% typ. / ±5.0% max.	
Line Regulation	low line to high line, full load	±1.2% of 1.0% Vin typ.	
Load Regulation	20% to 100%	10% max.	

Tolerance Envelope



Deviation vs. Load





REE

Series

Specifications (measured @ Ta= 25°C, nominal input voltage, full load and after warm-up)

PROTECTIONS			
Parameter	Co	ndition	Value
Short Circuit Protection (SCP)	belo	w 100mΩ	1 second
Isolation Voltage (3)	I/P to O/P	tested for 1 second rated for 1 minute	1kVDC 500VAC/60Hz
Isolation Resistance			1GΩ min.
Isolation Capacitance			75pF max.
Insulation Grade			basic

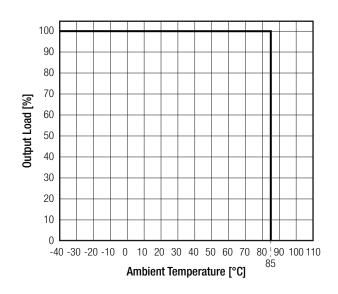
Notes:

Note3: For repeat Hi-Pot testing, reduce the time and/or the test voltage

Note4: Refer to local wiring regulations if input over-current protection is also required. Recommended fuse: T1A slow blow type

ENVIRONMENTAL				
Parameter	Condition	Condition		
Operating Temperature Range	full derating (see graph)	full derating (see graph)		
Maximum Case Temperature			+105°C	
Temeperature Coefficient			±0.05%/°C	
Thermal Impedance	0.1m/s, horizontal direction	0.1m/s, horizontal direction		
Operating Altitude				
Operating Humidity	non-condensing	non-condensing		
Pollution Degree			PD2	
MTBF	according to MIL-HDBK-217F, G.B.	+25°C	2400 x 10 ³ hours	
IVITOF	according to Mile-HDDK-217F, G.D.	+85°C	650 x 10 ³ hours	

Derating Graph





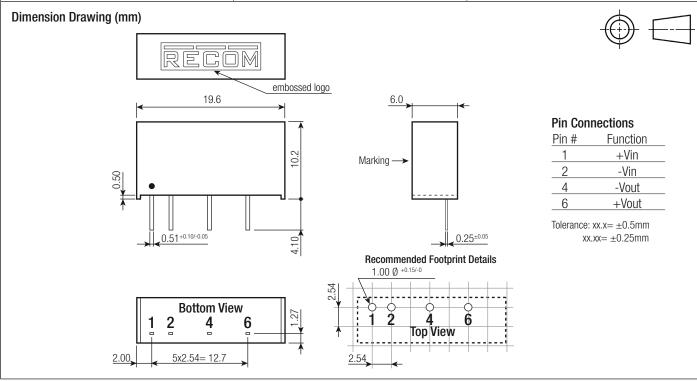
REE

Series

Specifications (measured @ Ta= 25°C, nominal input voltage, full load and after warm-up)

SAFETY AND CERTIFICATIONS			
Certificate Type (Safety)	Report/File Number	Standard	
Information Technology Equipment, General Requirements for Safety	E358085-A4	UL60950-1, 2nd Edition, 2007 CSA C22.2 No. 60950-1-07, 2nd Edition, 2007	
Information Technology Equipment, General Requirements for Safety	1602031	IEC60950-1:2005, 2nd Edition + A2:2013 EN60950-1:2006 + A2:2013	
EAC	RU-AT.49.09571	TP TC 004/2011	
RoHs 2+		RoHS-2011/65/EU + AM-2015/863	

DIMENSION AND PHYSICAL CHARACTERISTICS		
Parameter	Туре	Value
Material	case	non-conductive black plastic (UL94 V-0)
Diversity (LAMALI)	potting	epoxy (UL94 V-0)
Dimension (LxWxH)		19.6 x 6.0 x 10.2mm
Weight		2.2g typ.
Dimension Drawing (mm)		$\Rightarrow \Box$



PACKAGING INFORMATION		
Parameter	Туре	Value
Packaging Dimension (LxWxH)	tube	520.0 x 16.0 x 9.0mm
Packaging Quantity		25pcs
Storage Temperature Range		-55°C to +125°C
Storage Humidity		5% - 95%, RH

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