Features

- SMD case style
- Tape and reel packaging
- UL60950-1 certified
- Unregulated Converters
- High operating temperature range from -40°C to +100°C at full load
- Efficiency up to 76%
 - 2kVDC/1s isolation

Description

The R1SE/H2 series are 1W unregulated DC/DC converters that are lower cost than equivalent converters. The benefits of high volume production and semi-automatic assembly allow for a lower selling price without sacrificing our high quality standards. They are UL certified for safety, offer reasonable efficiency and still meet the full industrial operating temperature range of -40° to +100°C. All converters are 100% tested in production and carry our 3-year warranty.

RECOM

R1SE/H2



Selection Guide

Colocion dalao					
Part Number	Input Voltage [VDC]	Output Voltage [VDC]	Output Current [mA]	Efficiency typ. ⁽¹⁾ [%]	max. Capacitive Load ⁽²⁾ [µF]
R1SE-3.305/H2-R	3.3	5	200	75	1000
R1SE-0505/H2-R	5	5	200	75	1000
R1SE-0512/H2-R	5	12	84	76	330
R1SE-0515/H2-R	5	15	66	76	220
R1SE-1205/H2-R	12	5	200	73	1000
R1SE-1505/H2-R	15	5	200	74	1000





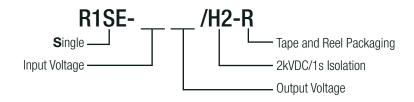
Notes:

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

Note2: Max. capacitive load is defined as the capacitive load that will allow start up in under 1 second without damage to the converter



Model Numbering



Ordering Examples:

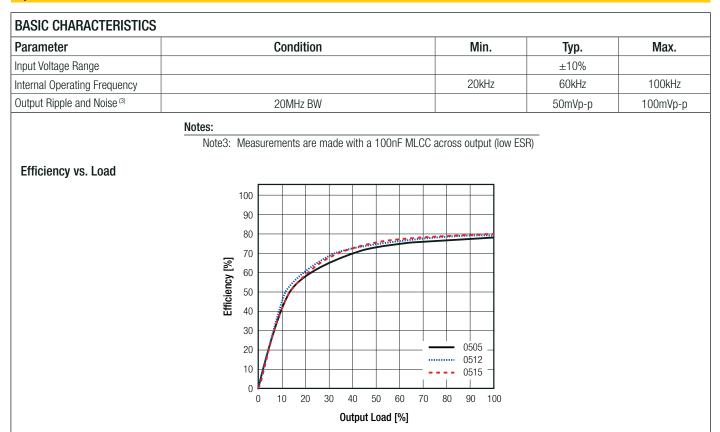
R1SE-0505/H2-R: Single Output, 5VDC Input, 5VDC Output, 2kVDC/1s isolation and tape and reel packaging

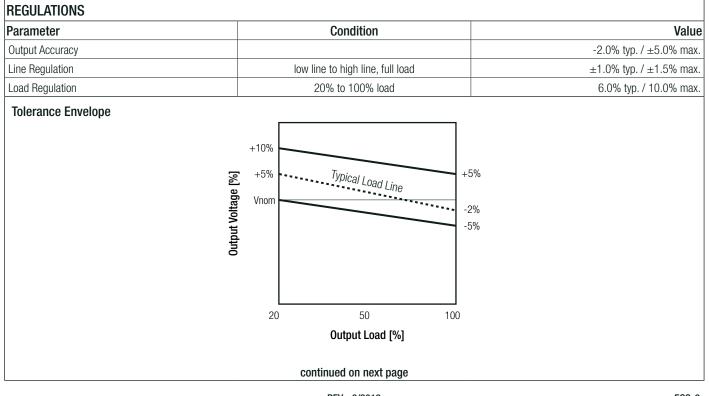
www.recom-power.com

RECOM DC/DC Converter

R1SE/H2 Series

Specifications (measured at Ta= 25°C, nominal input voltage and rated current unless otherwise specified)

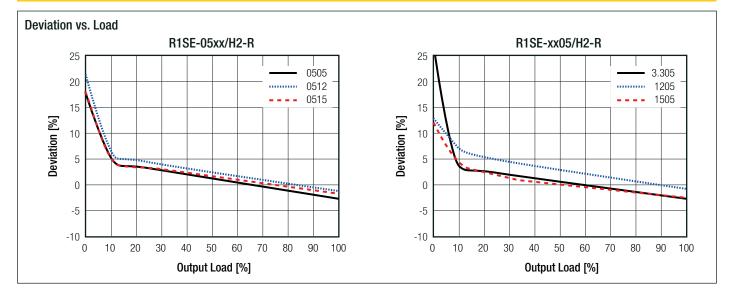




RECOM DC/DC Converter

R1SE/H2 Series

Specifications (measured at Ta= 25°C, nominal input voltage and rated current unless otherwise specified)



PROTECTIONS					
Parameter	Ţ	/ре	Value		
Isolation Voltage	I/P to O/P	tested for 1 second	2kVDC		
Isolation Resistance	Viso :	= 500V	10GΩ min.		
Isolation Capacitance			75pF max.		
Nataa			·		

Notes:

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

ENVIRONMENTAL		
Parameter	Condition	Value
Operating Temperature Range	full load @ free air convection	-40°C to +100°C
Operating Altitude		2000n
Operating Humidity	non-condensing	95% RH max
Pollution Degree		PD2
MTBF	according to MIL-HDBK-217F, G.B.	+25°C 2992 x 10 ³ hours +85°C 955 x 10 ³ hours
Derating Graph (@ free air convection)	0 0 0 0 0 0 0 0 0 0 0 0 0 0	90 100 110

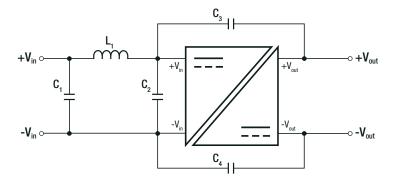
RECOM DC/DC Converter

R1SE/H2 Series

Specifications (measured at Ta= 25°C, nominal input voltage and rated current unless otherwise specified)

SAFETY AND CERTIFICATIONS					
Certificate Type (Safety)	Report / File Number	Standard			
Information Technology Equipment, General Requirements for Safety	E358085-A2-UL	UL60950-1, 2nd Edition:2007 CAN/CSA C22.2 No. 60950-1-03, 2nd Edition:2007			
EAC	RU-AT.49.09571	TP TC 004/2011			
RoHS 2+		RoHS-2011/65/EU + AM-2015/863			
EMC Compliance	Condition	Standard / Criterion			
Electromagnetic compatibility of multimedia equipment - Emission requirements	with external filter	EN55032, Class B EN55032, Class A			

EMC Filter Suggestion according to EN55032



Component List Class A

MODEL	C1	L1	C2	C3 and C4	MODEL	C1	L1	C3 (safety)	C4 (safety)
R1SE-0505/H2			6.8µF		R1SE-0505/H2				
R1SE-0512/H2	N1/A	N1/A	50V MLCC	N1/A	R1SE-0512/H2	10µF	12µH choke	000-5	000-5
R1SE-1205/H2	N/A	N/A	10µF	N/A	R1SE-1205/H2	100V MLCC	RLS-126	330pF	330pF
R1SE-1505/H2			100V MLCC		R1SE-1505/H2				

Notes:

Note5: Filter suggestions are valid for indicated part numbers only. For other part numbers, please contact RECOM tech support for advice

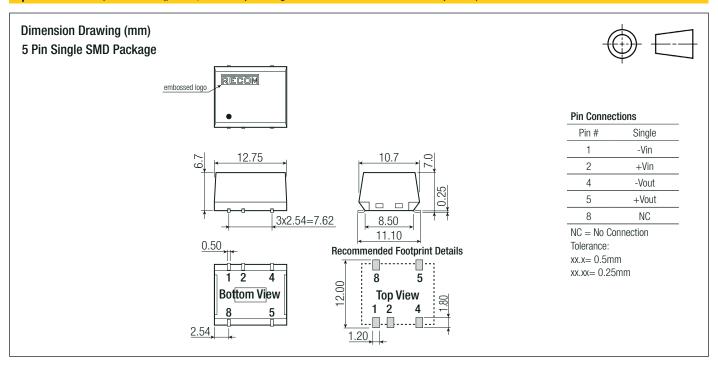
Component List Class B

DIMENSION AND PHYSICAL CHARACTERISTICS					
Parameter	Туре	Value			
Material	Case	non-conductive black plastic (UL94 V-0)			
Dimension (LxWxH)		12.75 x 10.7 x 6.7mm			
Weight		1.0g typ.			
v					



R1SE/H2 Series

Specifications (measured at Ta= 25°C, nominal input voltage and rated current unless otherwise specified)



PACKAGING INFORMATION					
Packaging Dimension (LxWxH)	tape and reel (carton)	355.0 x 342.0 x 36.0mm			
Packaging Quantity	tape and reel	500pcs			
Tape Width		24.0mm			
Storage Temperature Range		-55°C to +125°C			
Storage Humidity		95% RH max.			

The product information and specifications may be subject to changes even without prior written notice. The product has been designed for various applications; its suitability lies in the responsibility of each customer. The products are not authorized for use in safety-critical applications without RECOM's explicit written consent. A safety-critical application is an application where a failure may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The applicant shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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RECOM:

R1SE-0505/H2-R R1SE-3.305/H2-R R1SE-0515/H2-R R1SE-0512/H2-R R1SE-1205/H2-R R1SE-1505/H2-R