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

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





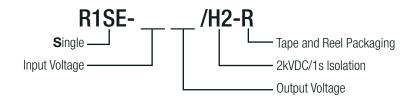
Notes:

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:

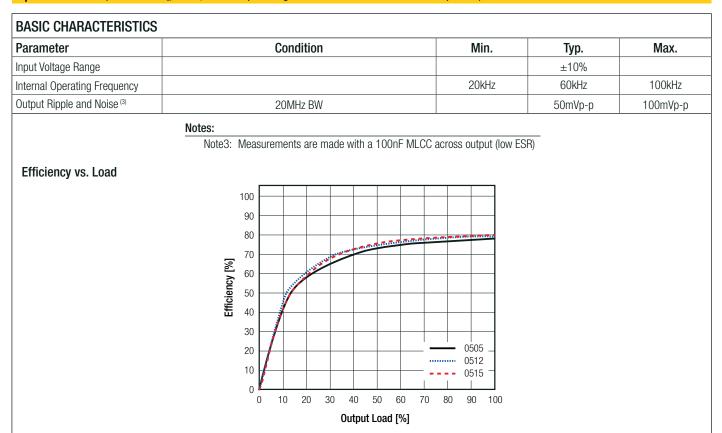
R1SE-0505/H2-R: Single Output, 5VDC Input, 5VDC Output, 2kVDC/1s isolation and tape and reel packaging

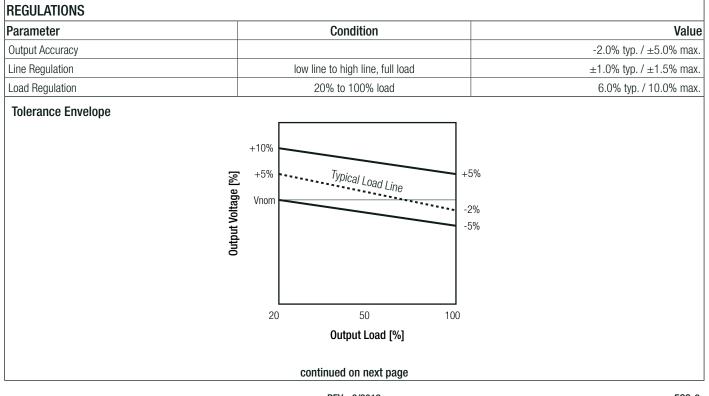
www.recom-power.com

RECOM DC/DC Converter

R1SE/H2 Series

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

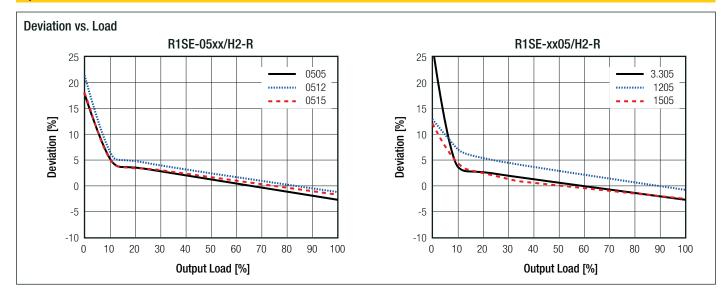




RECOM DC/DC Converter

R1SE/H2 Series

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



PROTECTIONS										
Parameter		Туре	Value							
Isolation Voltage	I/P to O/P	tested for 1 second	2kVDC							
Isolation Resistance	Viso	0 = 500V	10GΩ min.							
Isolation Capacitance			75pF max.							
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											2000m										
Operating Humidity		non-condensing									95% RH max.										
Pollution Degree																					PD2
MTBF		according to MIL-HDBK-217F, G.B. +25°C +85°C									x 10 ³ ł x 10 ³ ł										
Derating Graph (@ free air convection)	Output Load [%]	100 90 80 70 60 50 40 30 20 10 -40) -30 -	20) 9	0 10	0						
						Aml	bient	t Ten	npera	ture	[°C]									

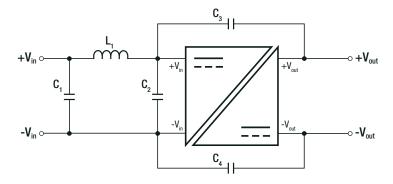
RECOM DC/DC Converter

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 F	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

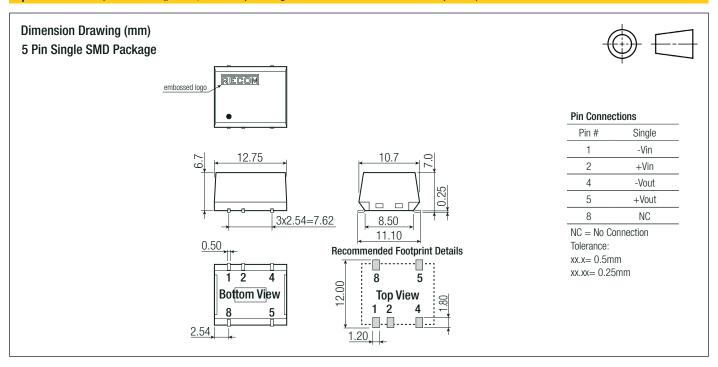
Component List Class B

Value
non-conductive black plastic (UL94 V-0)
12.75 x 10.7 x 6.7mm
1.0g typ.



R1SE/H2 Series

 $Specifications (measured at T_a = 25^{\circ}C, nominal input voltage and rated current unless otherwise specified)$



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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Isolated DC/DC Converters category:

Click to view products by Recom Power manufacturer:

Other Similar products are found below :

ESM6D044440C05AAQ FMD15.24G PSL486-7LR Q48T30020-NBB0 JAHW100Y1 SPB05C-12 SQ24S15033-PS0S 18952 19-130041 CE-1003 CE-1004 GQ2541-7R RDS180245 MAU228 J80-0041NL DFC15U48D15 XGS-0512 XGS-1205 XGS-1212 XGS-2412 XGS-2415 XKS-1215 06322 NCT1000N040R050B SPB05B-15 SPB05C-15 L-DA20 DCG40-5G QME48T40033-PGB0 XKS-2415 XKS-2412 XKS-1212 XKS-1205 XKS-0515 XKS-0505 XGS-2405 XGS-1215 XGS-0515 PS9Z-6RM4 73-551-5038I AK1601-9RT VI-N61-CM VI-R5022-EXWW PSC128-7iR RPS8-350ATX-XE DAS1004812 VI-LJ11-iz PQA30-D24-S24-DH VI-M5F-CQ VI-LN2-EW