Features

Unregulated

Converters

- Tape and Reel Packaging
- UL-60950-1 Certified

SMD Case Style

- High Operating Temperature Range from -40°C to 100°C
- Efficiency up to 76%
- 2kVDC isolation



R1SE/H2

1 Watt **SMD Single Output**

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.

Selection Guide					
Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency typ. (%)	max. Capacitive Load ⁽¹⁾ (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



Note1: Max. capacitive load is defined as the capacitive load that will allow start up in under 1 second without damage to the converter.

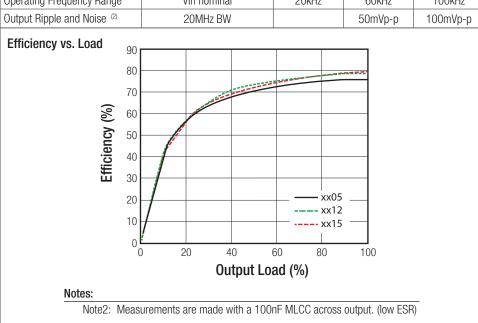






Specifications (measured at Ta= 25°C, nominal input voltage and rated current unless otherwise specified)

BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range				±10%
Operating Frequency Range	Vin nominal	20kHz	60kHz	100kHz
Output Ripple and Noise (2)	20MHz BW		50mVp-p	100mVp-p



UL-60950-1 Certified

Refer to Applications Notes

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R1SE/H2

Series

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

REGULATIONS			
Parameter	Condition	Values	
Output Voltage Accuracy		-2% typ. / ±5% max.	
Line Voltage Regulation	low line to high line, max. load	±1% typ. / ±1.5% max.	
Load Voltage Regulation	20% - 100% load	±6% typ. / ±10% max.	
Deviation vs. Load 25 (%) Parising the property of the prop	Deviation from Nominal (%) Deviation from Nominal (%) 10 10 10 10 (%)	3.305 ————————————————————————————————————	
	+10% +5% V Nom. -2% -5% -5%		
	+Vout and -Vout Load Current [%]		

PROTECTIONS		
Parameter	Condition	Value
Isolation Voltage		2kVDC / 1 second
Isolation Capacitance		75pF max.
Isolation Resistance	Viso= 500V	10GΩ min.

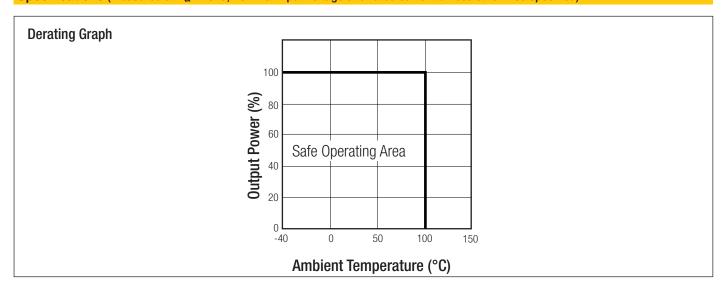
ENVIRONMENTAL		
Parameter	Condition	Value
Operating Temperature Range		-40°C to +100°C
Operating Humidity	non-condensing	95% RH max.
MTBF (+25°C) (+85°C)	according to MIL-HDBK-217F, full load	2992 x 10 ³ hours 955 x 10 ³ hours
	continued on next page	



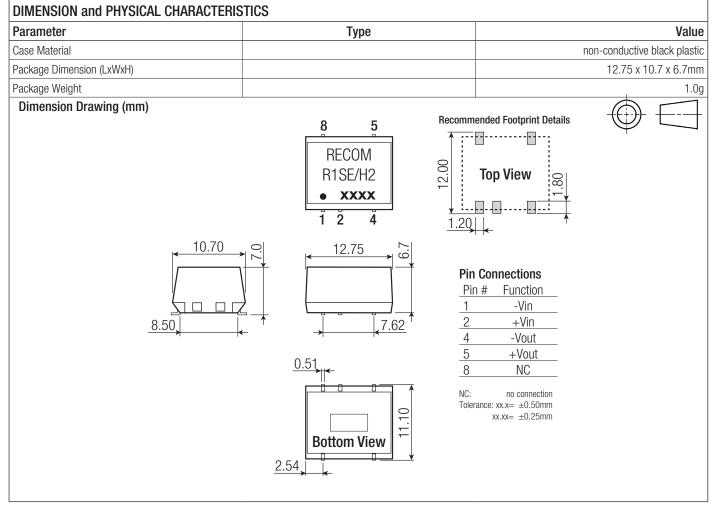
R1SE/H2

Series

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



SAFETY AND CERTIFICATIONS			
Certificate Type	Report / File Number	Standard	
UL General Safety	_ General Safety	UL-60950-1, 2nd Edition	
	E358085-A2	CAN/CSA C22.2 No. 60950-1-07, 2nd Edition	





R1SE/H2

Series

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

PACKAGING INFORMATION		
Parameter	Туре	Value
Storage Temperature Range		-55°C to +125°C
Packaging Dimension (LxWxH)	Tape and Reel	355.0 x 342.0 x 36.0mm
Packaging Quantity		500pcs

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