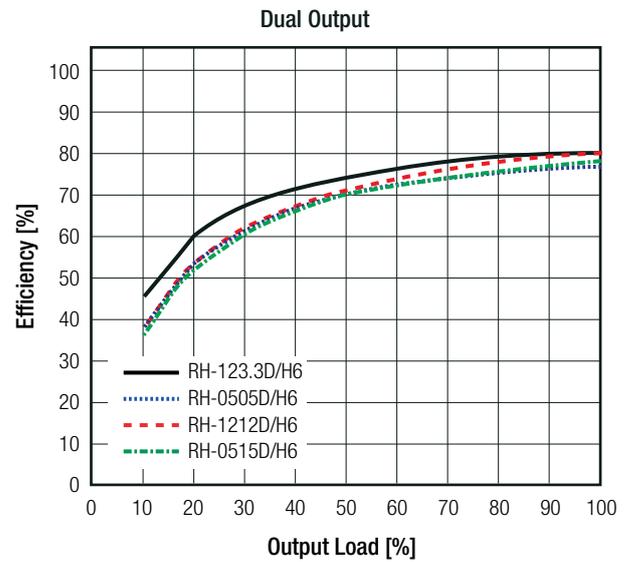
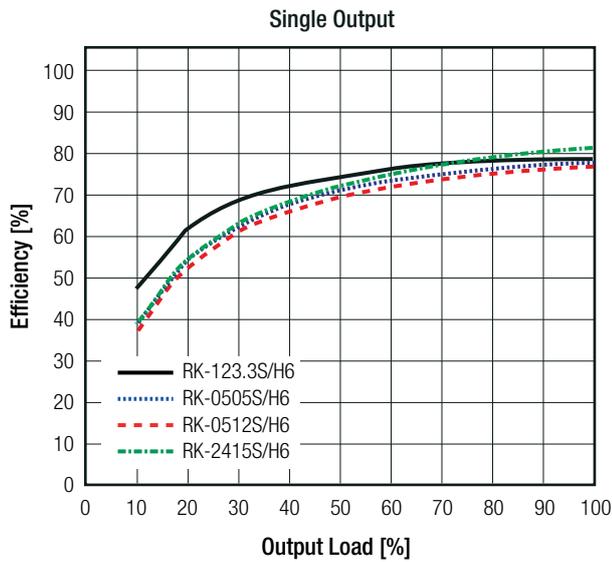


Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

BASIC CHARACTERISTICS

Parameter	Condition	Min.	Typ.	Max.
Internal Input Filter				capacitor
Input Voltage Range			±10%	
Start-up Time			20ms	
Internal Operating Frequency			80kHz	
Minimum Load			0%	
Output Ripple and Noise	20MHz BW		60mVp-p	120mVp-p

Efficiency vs. Load



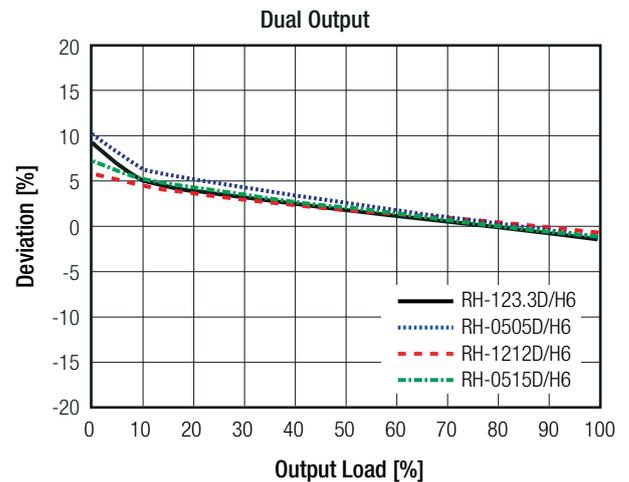
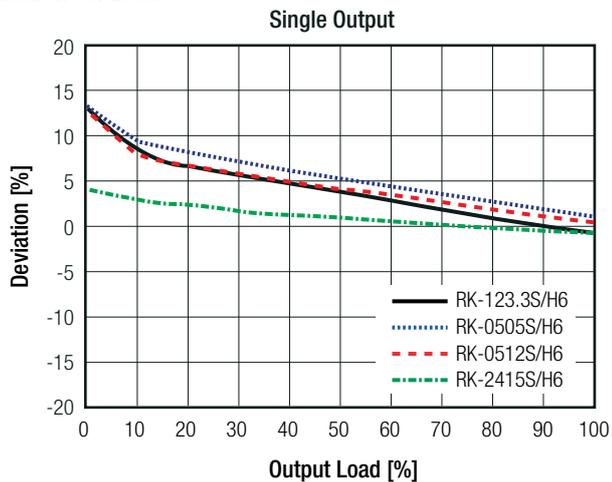
REGULATIONS

Parameter	Condition	Values
Output Accuracy		±5.0% max.
Line Regulation	low line to high line, max. load	±1.2% of 1.0% Vin typ.
Load Regulation ⁽³⁾	10% to 100% load	10% max.

Notes:

Note3: Operation below 10% load will not harm the converter, but specifications may not be met

Deviation vs. Load



Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

PROTECTIONS

Parameter	Condition		Value
Short Circuit Protection (SCP)			continuous
Isolation Voltage ⁽⁴⁾	I/P to O/P	tested for 1 second rated for 1 minute	6.4kVDC 5.2kVDC
Isolation Resistance			10GΩ min.
Isolation Capacitance			75pF max.
Insulation Grade			functional

Notes:

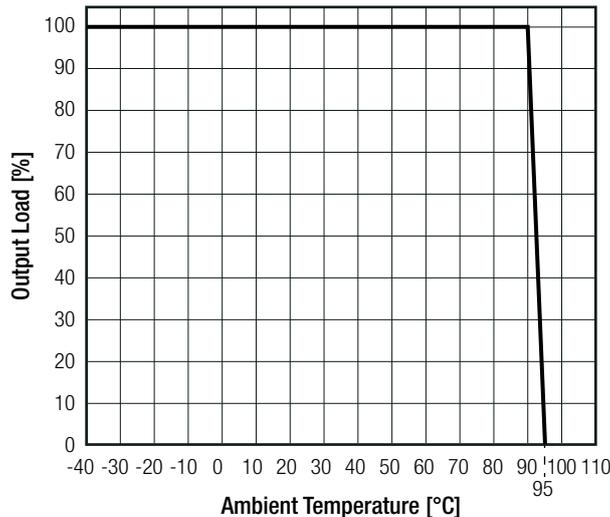
Note4: For repeat Hi-Pot testing, reduce the time and/or the test voltage

Note5: 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	without derating @ free air convection (see graph)		-40°C to +90°C
Operating Altitude			5000m
Operating Humidity	non-condensing		5% - 95% RH max.
MTBF	according to MIL-HDBK-217F; G.B.	+25°C +85°C	14919 x 10 ³ hours 9468 x 10 ³ hours

Derating Graph



SAFETY AND CERTIFICATIONS

Certificate Type	Report / File Number	Standard
Information Technology Equipment - General Requirements for Safety	E224736-A25-UL	UL60950-1, 2nd Edition, 2014 CAN/CSA-C22.2 No. 60950-1-07, 2nd Edition, 2014
Audio/Video, information and communication technology equipment - Part1: Safety requirements		UL62368-1, 2nd Edition, 2014 CAN/CSA-C22.2 No. 62368-1-14, 2nd Edition, 2014
Information Technology Equipment, General Requirements for Safety (CB)	E224736-A26-CB-1	IEC60950-1:2005, 2nd Edition + A2:2013
Information Technology Equipment, General Requirements for Safety		EN60950-1:2006 + A2:2013
Audio/video, information and communication technology equipment Part 1: safety requirements (CB)	OFF-4787079973-A-2	IEC62368-1:2014, 2nd Edition
Audio/video, information and communication technology equipment Part 1: safety requirements		EN62368-1:2014

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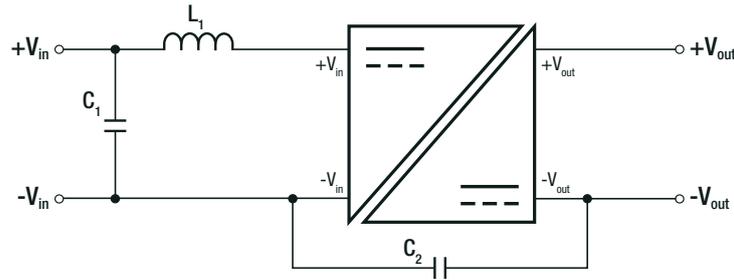
Specifications (measured @ $T_a = 25^\circ\text{C}$, nom. V_{in} , full load and after warm-up unless otherwise stated)

Certificate Type	Report / File Number	Standard
EAC	RU-AT.49.09571	TP TC 004/2011
RoHS 2+		RoHS-2011/65/EU + AM-2015/863

EMI Compliance	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment - Emission requirements	with external filter (see filter suggestion below)	EN55032, Class B EN55032, Class A

EMC Filter Suggestion according to EN55032

Single Output



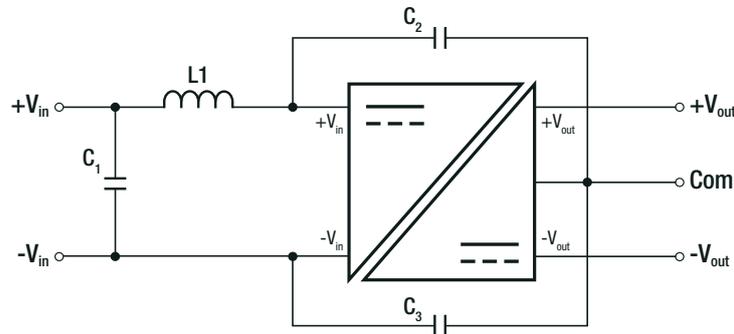
Component List Class A

MODEL	C1	L1	C2 (safety)
RK-0505S/H6	10 μ F 100V MLCC	5.6 μ H choke RLS-567	N/A
RK-0515S/H6			
RK-2405S/H6			100pF

Component List Class B

MODEL	C1	L1	C2 (safety)
RK-0505S/H6	10 μ F 100V MLCC	22 μ H choke RLS-226	1nF
RK-0515S/H6			
RK-2405S/H6			

Dual Output



Component List Class A

MODEL	C1	L1	C2 (safety)	C3 (safety)
RH-0505D/H6	10 μ F 100V MLCC	12 μ H choke RLS-126	1nF	N/A
RH-1205D/H6				
RH-1212D/H6				
RH-2405D/H6				

Component List Class B

MODEL	C1	L1	C2 (safety)	C3 (safety)
RH-0505D/H6	22 μ F, MLCC	22 μ H choke RLS-226	1nF	1nF
RH-1205D/H6	10 μ F 100V MLCC			
RH-1212D/H6				
RH-2405D/H6				

Notes:

Note6: Filter suggestions are valid for indicated part numbers only. For other part numbers, please contact RECOM tech support for advice

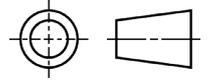
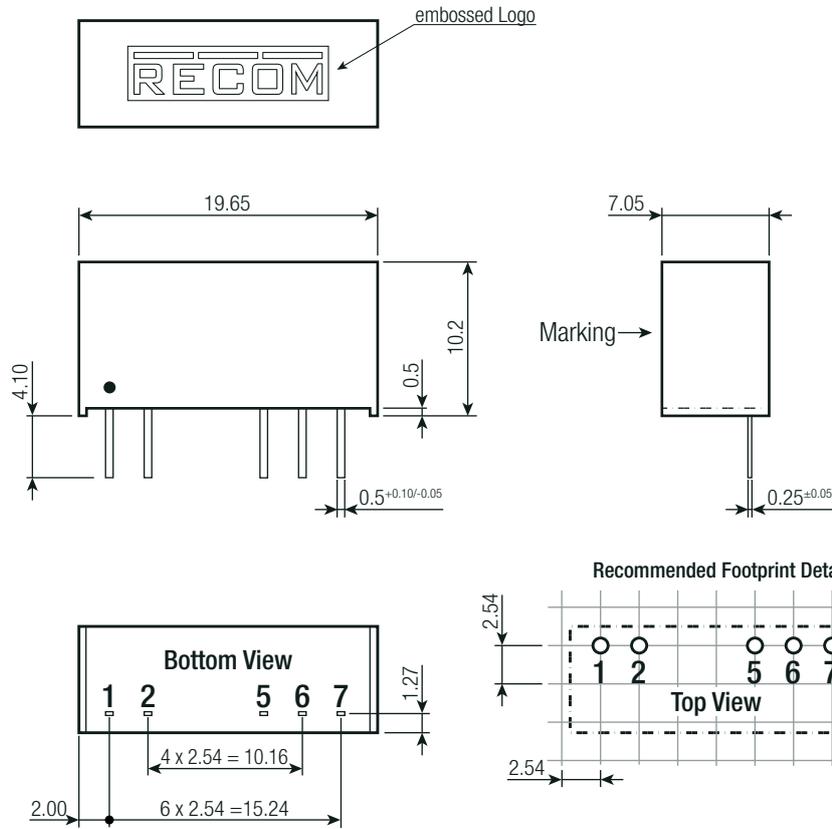
DIMENSION and PHYSICAL CHARACTERISTICS

Parameter	Type	Value
Material	case potting	non-conductive black plastic, (UL94 V-0) epoxy, (UL94 V-0)
Dimension (LxWxH)		19.65 x 7.05 x 10.2mm
Weight		2.7g typ.

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Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

Dimension Drawing (mm)



Pinning information

Pin #	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
5	-Vout	-Vout
6	no pin	Com
7	+Vout	+Vout

Tolerance:
xx.x= ±0.5mm
xx.xx= ±0.25mm

PACKAGING INFORMATION

Parameter	Type	Value
Packaging Dimension (LxWxH)	tube	520.0 x 16.5 x 9.0mm
Packaging Quantity	tube	25pcs
Storage Temperature Range		-55°C to +125°C
Storage Humidity	non-condensing	95% RH max.

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