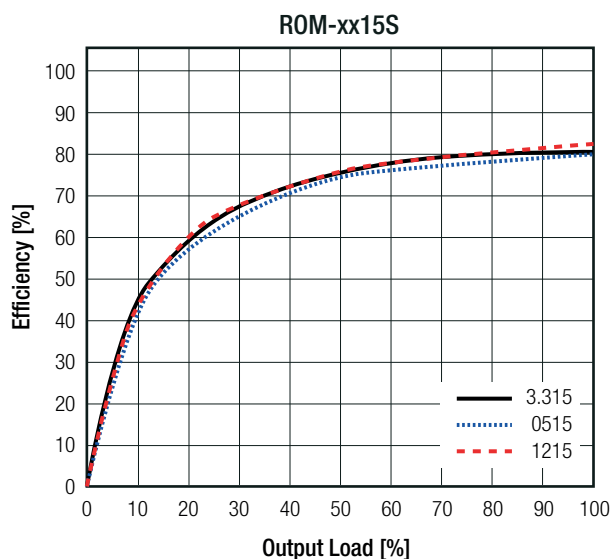
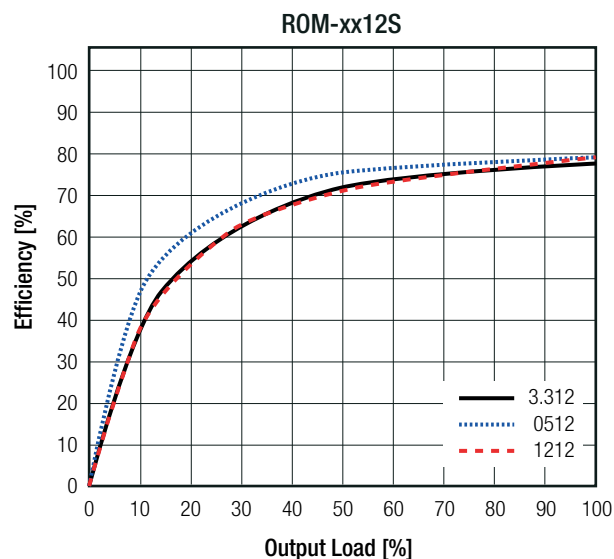
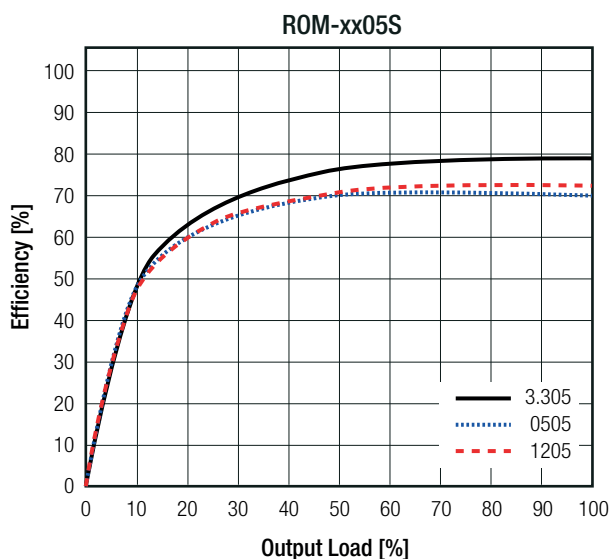


**Specifications** (measured @ Ta= 25°C, nom. Vin and full load otherwise stated)

### BASIC CHARACTERISTICS

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range			±10%	
Minimum Load		0%		
Internal Operating Frequency		50kHz	100kHz	105kHz
Output Ripple and Noise	20MHz BW			100mVp-p

### Efficiency vs. Load



### REGULATIONS

Parameter	Condition	Value
Output Accuracy		±5.0% max.
Line Regulation	low line to high line	±1.2% of 1.0% Vin typ.

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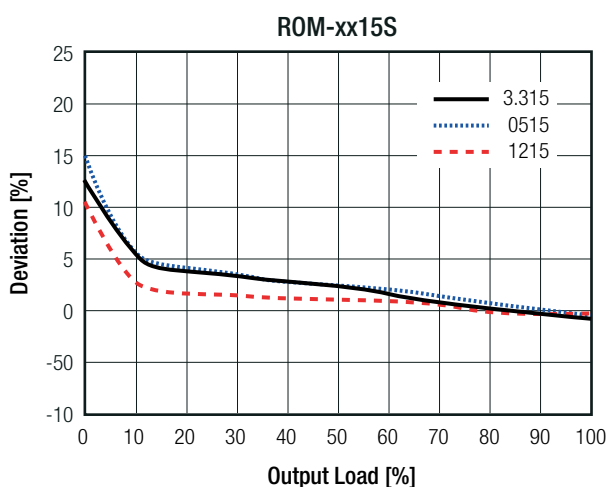
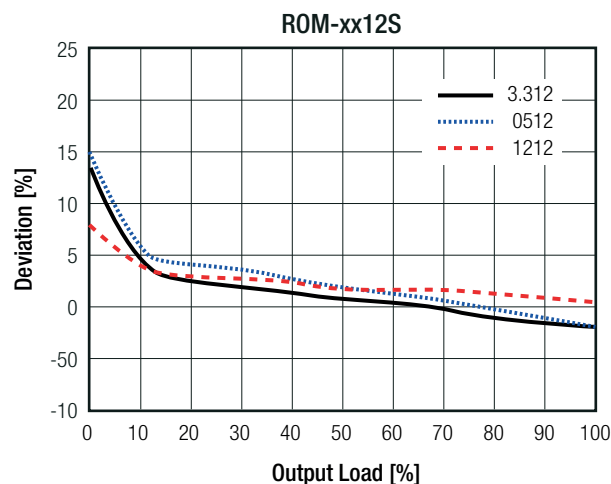
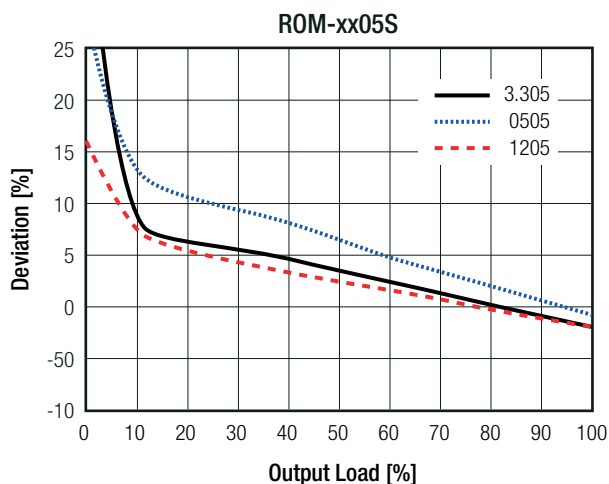
**Specifications** (measured @ Ta= 25°C, nom. Vin and full load otherwise stated)

Parameter	Condition		Value
Load Regulation <sup>(5)</sup>	10% to 100% load	5Vout 12, 15Vout	15.0% max. 10.0% max.

**Notes:**

Note5: Operation below 10% load will not harm the converter, but specifications may not be met

**Deviation vs. Load**



**PROTECTIONS**

Parameter	Type		Value
Short Circuit Protection (SCP)	without suffix with suffix "P"		1 second continuous
Isolation Voltage <sup>(6)</sup>	I/P to O/P	tested for 1 second rated for 1 minute	3kVDC 1.5kVAC/60Hz
Isolation Resistance			15GΩ min.
Isolation Capacitance			20pF min. / 75pF max.
Insulation Grade			basic (IEC/EN60950-1) functional (IEC/EN60601-1)

**Notes:**

Note6: For repeat Hi-Pot testing, reduce the time and/or the test voltage

Note7: Refer to local wiring regulations if input over-current protection is also required. Recommended fuse: T1A slow blow type

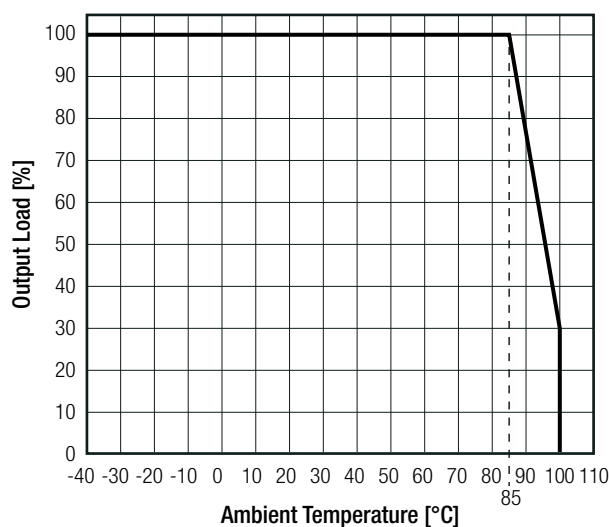
**Specifications** (measured @ Ta= 25°C, nom. Vin and full load otherwise stated)

**ENVIRONMENTAL**

Parameter	Condition		Value
Operating Temperature Range	full load @ free air convection (see graph)		-40°C to +85°C
Operating Altitude			2000m (IEC/EN60950-1) 3000m (IEC/EN60601-1)
Operating Humidity	non-condensing		95% RH max.
Pollution Degree			PD2
MTBF	according to MIL-HDBK-217F, G.B.	+25°C +85°C	977 x 10 <sup>3</sup> hours 189 x 10 <sup>3</sup> hours

**Derating Graph**

(@ free air convection)



**SAFETY AND CERTIFICATIONS**

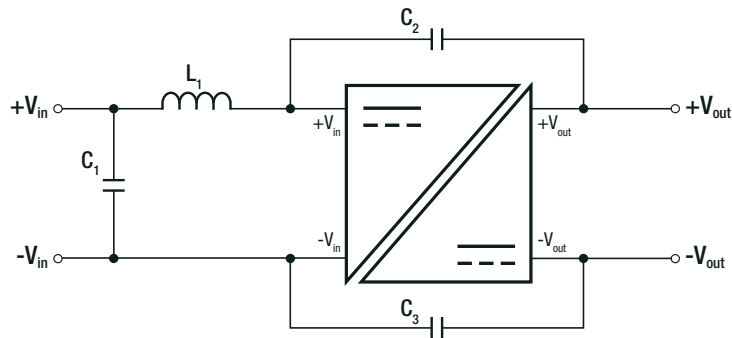
Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	E358085-A4-UL	UL60950-1, 2nd Edition:2007 CAN/CSA C22.2 No. 60950-1-03, 2nd Edition:2007
Information Technology Equipment, General Requirements for Safety (CB)	E322406-A4-CB-1	IEC60950-1:2005, 2nd Edition
Information Technology Equipment, General Requirements for Safety	LVD1602031	IEC60950-1:2005, 2nd Edition + A2:2013 EN60950-1:2006 + A2:2013
Medical electrical equipment Part 1: General requirements for basic safety and essential performance	WD-SE-R-180676-A0	EN60601-1:2006 + A12:2014 IEC60601-1:2005 + A1:2012, 3rd Edition
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 (refer to " <b>EMC Filter</b> ")	EN55032, Class A and B

continued on next page

**Specifications** (measured @ Ta= 25°C, nom. Vin and full load otherwise stated)

**EMC Filter Suggestion according to EN55032**



**Component List Class A**

MODEL	C1	L1	C2 (safety)	C3 (safety)
ROM-0505S	10µF 100V MLCC	N/A	N/A	N/A
ROM-1205S				2.2nF
ROM-2405S				2.2nF

**Component List Class B**

MODEL	C1	L1	C2 (safety)	C3 (safety)
ROM-0505S	10µF 100V MLCC	<a href="#">22µH choke</a> <a href="#">RLS-226</a>	1nF	2.2nF
ROM-1205S				
ROM-2405S				

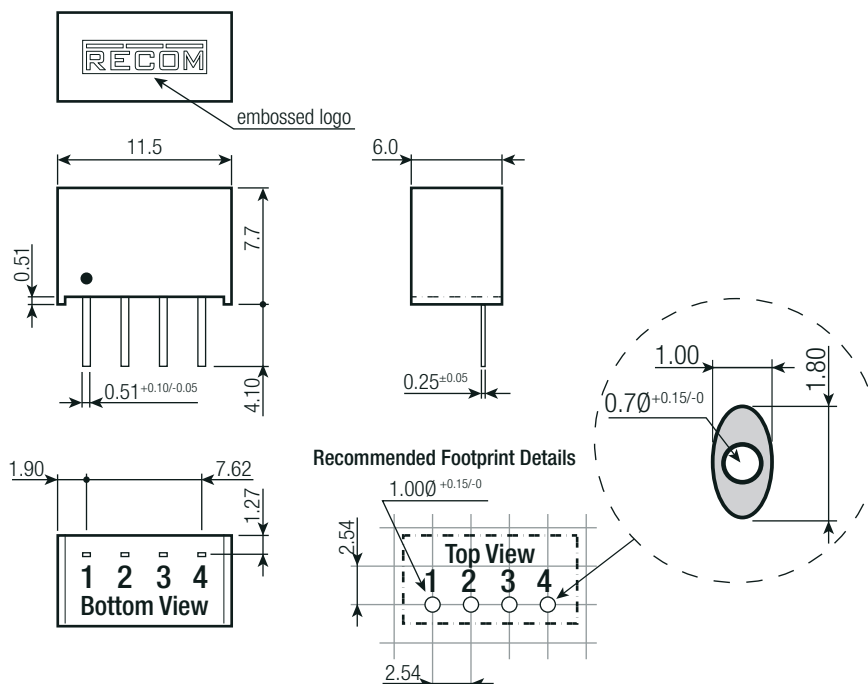
**Notes:**

Note8: 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 PCB	non-conductive black plastic (UL94 V-0) epoxy, (UL94 V-0) FR4, (UL94 V-0)
Dimension (LxWxH)		11.5 x 6.05 x 7.7mm
Weight		1g typ.

**Dimension Drawing (mm)**



**Pinning information**

Pin #	Single
1	-Vin
2	+Vin
3	-Vout
4	+Vout

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

**Specifications** (measured @ Ta= 25°C, nom. Vin and full load otherwise stated)

**PACKAGING INFORMATION**

Parameter	Type	Value
Packaging Dimension (LxWxH)	tube	520.0 x 16.0 x 9.0mm
Packaging Quantity	tube	42pcs
Storage Temperature Range		-55°C to +125°C
Storage Humidity	non-condensing	95% RH max.

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