

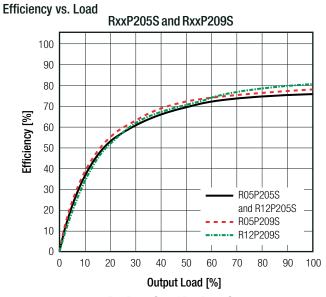
Series

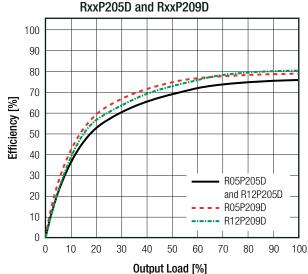
Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

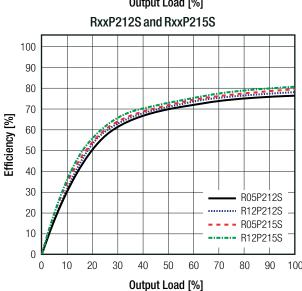
BASIC CHARACTERISTICS				
Parameter	Condition	Min.	Тур.	Max.
Input Voltage Range			±10%	
Minimum Load			0%	
Internal Operating Frequency		20kHz	50kHz	85kHz
Output Ripple and Noise (5)	20MHz BW			200mVp-p

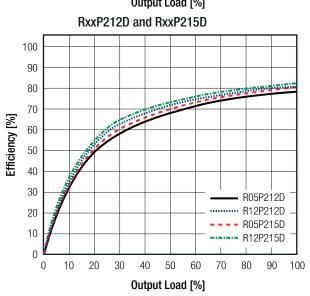
Notes:

Note5: Measurements are made with a 0.1µF MLCC across output (low ESR)









REGULATIONS			
Parameter	Cond	ition	Value
Output Accuracy			±5.0% max.
Line Regulation	low line to high	line, full load	1.2%/1% of Vin typ.
Load Regulation (6)	10% to 100% load	3.3, 5VDC 9, 12, 15VDC	15% typ. 10% typ.

Note6: Operation below 10% load will not harm the converter, but specifications may not be met



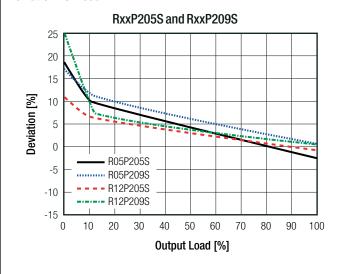
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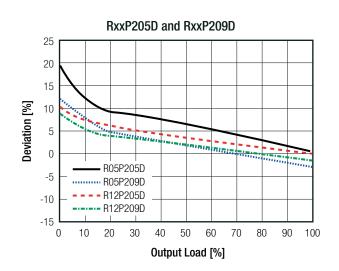
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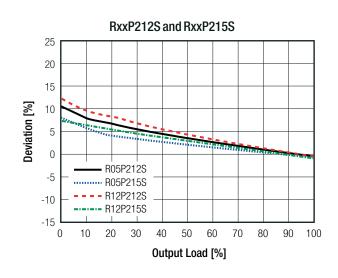
Tolerance Envelope Typical Load Line -1.5% -5% 10 50 100

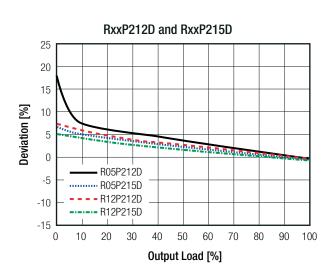
Load [%]

Deviation vs. Load











Series

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

PROTECTIONS			
Parameter	T	ype	Value
Short Circuit Protection (SCP)		Suffix "/P" Juffix "/P"	1 second continuous
		tested for 1 second	6.4kVDC
Isolation Voltage (7)	I/P to O/P	rated for 1 minute	3.2kVAC/60Hz
		working voltage	250VACrms
Isolation Resistance		·	15GΩ min.
Isolation Capacitance			1.5pF min. / 10pF max.
Insulation Grade			basic (IEC/EN/UL62368-1)

Notes:

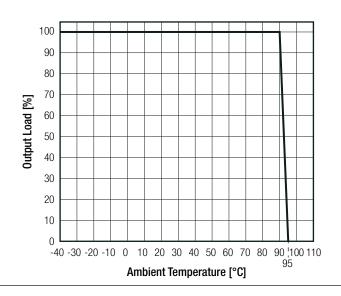
Note7: For repeat Hi-Pot testing, reduce the time and/or the test voltage

Note8: Refer to local safety regulations if input over-current protection is required. Recommended fuse: slow blow type

ENVIRONMENTAL				
Parameter	Condition		Value	
Operating Temperature Range	without derating @ free air co	nvection (see	graph)	-40°C to +95°C
Maximum Case Temperature				+105°C
Operating Altitude				2000m (IEC/EN/UL62368-1) 3000m (IEC/EN60601-1)
Operating Humidity	non-condensing		95% RH max.	
Pollution Degree			PD2	
MTBF	according to MIL UDDV 217E C.P.	+25°C	Single Dual	2113 x 10 ³ hours 2434 x 10 ³ hours
INITOF	according to MIL-HDBK-217F, G.B.	+85°C	Single Dual	299 x 10 ³ hours 334 x 10 ³ hours

Derating Graph

(@ Chamber and free air convection)



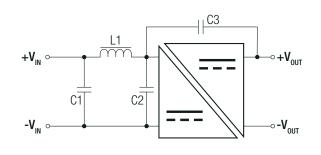


Series

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SAFETY AND CERTIFICATIONS			
Certificate Type (Safety)	Report / File Number	Standard	
Information Technology Equipment, General Requirements for Safety	E224736-A56-UL	UL60950-1, 2nd Edition, 2014	
		CAN/CSA C22.2 No. 60950-1, 2nd Edition, 2014	
Information Technology Equipment - General Requirements for Safety	LVD1602031	EN60950-1:2006 + A2:2013	
		IEC60950-1:2005 2nd Edition + A2:2013	
Audio/video, information and communication technology equipment.	E224736-A56-UL	UL62368-1, 2nd Edition, 2014	
Safety requirements		CAN/CSA C22.2 No. 62368-1, 2nd Edition, 2014	
Audio/video, information and communication technology equipment. Safety requirements	ATTOR100070	EN62368-1:2014 +A11:2017	
Audio/video, information and communication technology equipment. Safety requirements (CB Scheme)	ATTCB106076	IEC62368-1:2014, 2nd Edition	
Medical electrical equipment Part 1: General requirements for basic	WD-SE-R-180541-A0	EN60601-1:2006 + A12:2014	
safety and essential performance	WD-5E-R-160541-A0	IEC60601-1:2005 + A1:2012, 3rd Edition	
EAC	RU-AT.49.09571	TP TC 004/2011	
RoHS2		RoHS-2011/65/EU + AM2015/863	
EMC Compliance	Condition	Standard / Criterion	
Electromagnetic compatibility of multimedia equipment - Emission requirements	with external filter	EN55032, Class A and B	

EMC Filtering Suggestions according to EN55032 Class A and Class B



Component List Class A

C1	L1	C3
10μF 100V MLCC	-	-

Component List Class B

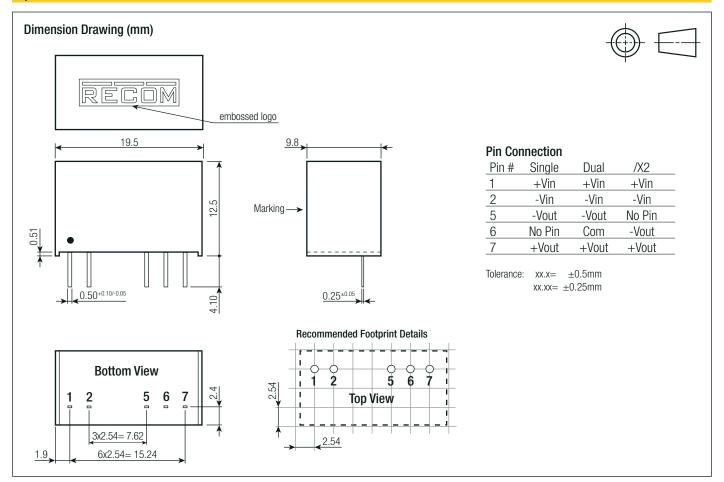
C1	C2	L1	C3
10μF 100V	10μF 100V	12µH choke	2n2F 8kV
MLCC	MLCC	WE 744 045 120	ZIIZF OKV

Parameter	Туре	Value
	case	non-conductive black plastic, (UL94 V-0)
Material	potting	epoxy, (UL94 V-0)
	PCB	FR4, (UL94 V-0)
Package Dimension (LxWxH)		19.5 x 9.8 x 12.5mm
Package Weight		4.3g typ.



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PACKAGING INFORMATION		
Parameter	Туре	Value
Packaging Dimension (LxWxH)	tube	520.0 x 22.3 x 12.0mm
Packaging Quantity	tube	25pcs
Storage Temperature Range		-55°C to +125°C
Storage Humidity		95% RH max.

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