ECONOLINE DC/DC-Converter

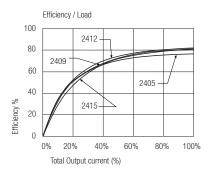
Specifications (Core Operating Area) measured at T_A = 25°C, nominal input voltage, full load and after warm-up time unless otherwise specified

Input Voltage Range		A		2:1 and 4:1	
Output Voltage Accuracy				±2% typ.	
Line Voltage Regulation		2:1		±0.2% max.	
		4:1		±0.5% max.	
Load Voltage Regulation		2:1		±0.4% max.	
(10% to 100% full load)		4:1		±0.5% typ.	
Minimum Load				10% (2)	
Output Ripple and Noise (20MHz limited) 50mVp-p max					
Operating Frequency			. / 500kHz max.		
		4:1	100kHz min.	. / 800kHz max.	
Efficiency at Full Load			See	Selection Guide	
Quiescent Current		RSO-05xxS_D, SZ_	DZ	40mA typ.	
Nominal input Voltage		RSO-12xxS_D, SZ_	DZ	32mA typ.	
(Standard, /H2 and /H3)		RSO-24xxS_D, SZ_		25mA typ.	
		RSO-48xxS_D, SZ_		15mA typ.	
CTRL Pin drive current /see	Notes)			A typ, 6mA max.	
Quiescent Input Current when Converter is OFF 10mA max.					
Isolation Voltage	Standard	(tested for 1 second)	1000VDC	
		(rated for 1 minute*	,	500VAC / 60Hz	
	/H2 Version	(tested for 1 second	,	2000VDC	
		(rated for 1 minute*	, ,	000VAC / 60Hz	
	/H3 Version	(tested for 1 second	,	3000VDC	
	/10 00101011	(rated for 1 minute*	, ,	500VAC / 60Hz	
Isolation Capacitance	Standard	2:1 Single	/ 10pF min. / 40pF t		
Isolation Capacitance	/H2 and /H3	2:1 Single	5pF min. / 30pF t		
Isolation Capacitance	Standard	•	120pF min. / 170pF typ. / 250pF max.		
Isolation Capacitance	/H2 and /H3	2:1 Dual	5pF min. / 30pF t		
Isolation Capacitance	Standard	4:1 Single/Dual		200pF max.	
Isolation Capacitance	/H2 and /H3	4:1 Single/Dual		30pF max.	
Isolation Resistance		4.1 Olligio/Dual		$>1G\Omega$ min.	
Short Circuit Protection				Continuous	
Operating Temperature Ran	ae (free air conv	action)	-∕10°C to +84	5°C (see Graph)	
Storage Temperature Range				5°C to +125°C	
Relative Humidity	;		-5	95% RH	
Package Weight				4.7g	
				0	
Packing Quantity				22 pcs per Tube 685 x 10 ³ hours	
S	nformation see n Notes chapter "N	using MIL-HI ITBF" using MIL-HI		254×10^3 hours	
Certifications					
EN General Safety Report: SPCLVD1605077-10 EN60950-1, AM2:2				50-1, AM2:2013	
EN Medical Safety Report: MDD1205098-3 + RM1205098-3 IEC/EN 60601-1 3rd Ed					
Medical Report + IS014971 Risk Assessment					
III. Conoral Safaty	Report: E224736-A34 UL60950-1, 2nd Edition 2014 CSA C22.2 60950-1-07, 2nd Edition 2014				
UL General Safety				and Edition and 4	

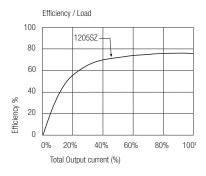
RSO-24xxS

RSO-5_D(Z)

Series



RS0-1205SZ

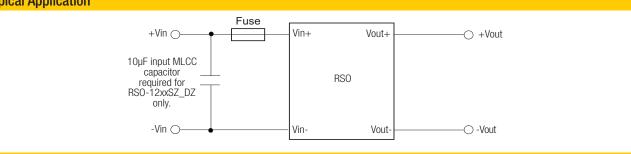


**Any data referred to in this datasheet are of indicative nature and based on our practical experience only. For further details, please refer to our Application Notes.

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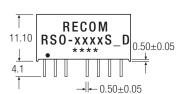
Typical Application





Package Style and Pinning (mm)

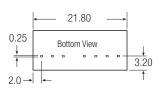
8 PIN SIP Package

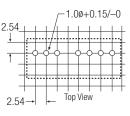


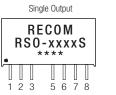


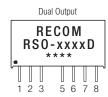
XX.X ± 0.5 mm XX.XX ± 0.25 mm

Recommended Footprint Details









Pin Connections

Pin #	Single	Dual
1	–Vin	–Vin
2	+Vin	+Vin
3	CTRL	CTRL
5	NC	NC
6	+Vout	+Vout
7	-Vout	Com
8	NC*	-Vout
NC = No C	onnection	

NC* = NC, but no external Connection allowed.

CTRL Examples:

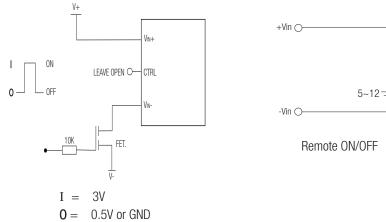
 Pin 8 (NC*)
 This pin is used internally and must have no external connection.

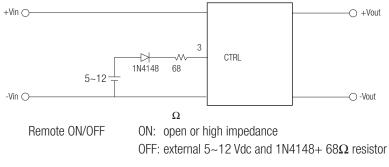
 Pin 5 (NC)
 Not connected internally.

Pin 3 (CTRL)

This pin provides an Off function which puts the converter into a low power mode. When the pin is 'high' the converter is OFF and when the pin is high 'Z' the converter is ON. There is no allowed low state for this pin.

ON/OFF CONTROL





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