Features

Regulated Converters

- 1:1 Input Range
- Efficiency up to 69%
- 1kVDC and 2kVDC Isolation Option
- 1W SMD Package
- -40°C to +85°C Operating Temperature Range
- Continuous Short Circuit Protection

ECONOLINE DC/DC-Converter



1 Watt SMD **Single Output**





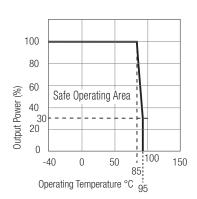


EN-60950-1 Certified EN-60601-1 Certified* (*/H suffix)

RAZ

Derating-Graph

(Ambient Temperature)



Selection Guide

Part Number SMD	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (typ.)	Capacitive Load (max.)
RAZ-0505S*	5	5	200	67%	2200µF
RAZ-1205S*	12	5	200	68%	2200µF
RAZ-2405S*	24	5	200	69%	2200µF

^{*} add Suffix "/H" for 2kVDC/1min. Isolation - e.g. RAZ-0505S/H

Specifications (measured at $T_A = 25^{\circ}$ C, nominal input voltage and rated output current unless otherwise specified)

Input Voltage Range			±10% max.		
Output Voltage Accuracy		-1% typ., ±5% max.			
Line Voltage Regulation	(low line	e to high line at max. load	d) 1% max.		
Load Voltage Regulation	(10% to	100% full load)	1% max.		
Output Ripple and Noise (20MHz BW)		50mVp-p typ., 75mVp-p max.			
Operating Frequency (Vin=nominal input))	20kHz min. / 35kHz typ. / 60kHz max.			
Efficiency at Full Load		see Selection Guide			
Minimum Load = 0%		Specifications valid for 10% minimum load only			
Isolation Voltage	(tested	for 1 second)	1250 VDC		
Ü	(rated f	or 1 minute**)	1000 VDC		
Isolation Voltage H-Suffix	(tested	for 1 second)	2500 VDC		
H-Suffix	(rated f	or 1 minute**)	2000 VDC		
Isolation Capacitance		· · · · · · · · · · · · · · · · · · ·	6pF typ., 10pF max.		
Isolation Resistance	(Viso=5	500V)	10GΩ min.		
Short-Circuit Protection		,	continuous		
Operating Temperature Range			-40°C to +85°C		
Storage Temperature			-55°C to +125°C		
Relative Humidity			95% RH		
Package Weight			1.6g		
MTBF (+25°C) \ Detailed Information see		using MIL-HDBK 217F	3914 x 10 ³ hours		
MTBF (+85°C) Application Notes chapte	er "MTBF"	using MIL-HDBK 217F			
Certifications					
EN General Safety Report: SPCLVD11	12018		EN60950-1, 2nd Edition		
EN Medical Safety Report: MDD11120		1112018 IE	C/EN 60601-1 3rd Edition		

Medical Report + ISO14971 Risk Assessment

Refer to Application Notes

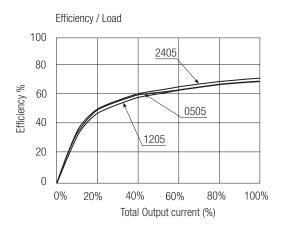
^{*} add Suffix "-R" for tape & reel packing - e.g. RAZ-1205S-R, RAZ-2405S/H-R

^{**}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.

ECONOLINE DC/DC-Converter

RAZ Series

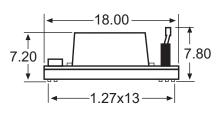
Typical Characteristics

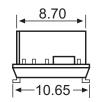


Note

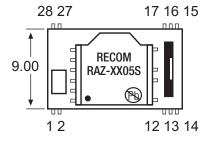
Note 1: Maximum capacitive load is defined as the capacitive load that will allow start up in under 1 second without damage to the converter.

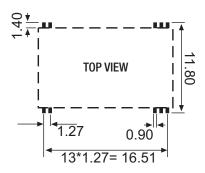
Package Style and Pinning





Recommended Footprint Details





Pin Connections

Function
+Vin
NC
-Vout
+Vout
-Vin

Unit: mm
Tolerance: ± 0.25 mm

NC = No Connection

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