ECONOLINE - DC/DC-Converter

RSZ Series, 1 Watt, SMD Miniature, Regulated (Single Output)





Selection Guide

Part Number SMD	2kVDC	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
Standard				
RSZ-XXXX	(H)	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28	-, , -, -, , -, -,	Depending on Output Voltage
With Short (Circuit P	rotection		
RSZ-XX03P	(H)	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28	3	200
RSZ-XX3.3P	(H)	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28	3.3	200
RSZ-XX4.85I	P (H)	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28	4.85	200
RSZ-XX05P	(H)	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28	5	200



Features

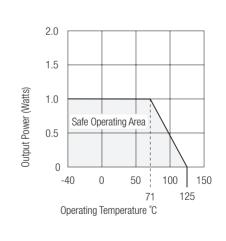
- Regulated Output
- 1kVDC (2kVDC) Isolation
- Single Isolated Output
- SMD Package Style
- UL 94V-0 Package Material
- No Heatsink Required
- Toroidal Magnetics
- No Extern. Components Required
- Short Circuit Protection Continuous (for "P-Suffix" part numbers only)

Ordering Example: RSZ-0414 (4VDC Input, 14VDC Output)

RSZ-244.85P (with Short Circuit Protection, 24VDC Input, 4.85VDC Output)

Specifications (Core Operating Area) and Operating Temperature / Derating-Graph

Input Voltage Range	±5%
Output Voltage Accuracy	±2%
Line Voltage Regulation	1% max.
Load Voltage Regulation	1% max.
Output Ripple and Noise (at 20MHz BW)	100mVp-p max.
Efficiency at Full Load	50% min.
Isolation Voltage ("H" suffix for 2000 VDC)	1.000VDC min.
Short Circuit Protection (P-Suffix)	1 Second (Continuous)
Operating Temperature Range	-40°C to +71°C (see Graph)
Storage Temperature Range	-55°C to +125°C
Isolation Capacitance	50pF
Insulation Resistance	10 G Ω min.
MTBF (+25°C)	500k Hrs. min



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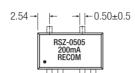


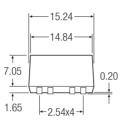


3rd angle projection

Package Style and Pinning (mm)

SMD Package







Pin Connections

Pin #	Function	
1	–Vin	
2	+Vin	
4	0V	
5	OV	
7	+Vout	
10	NC	

Recommended Footprint Details



Tolerance: XX.X \pm 0.5 mm XX.XX \pm 0.25 mm