

Features

Regulated Converters

- 1.5W/1.8W in Mini DIP and SMD Packages
- 1KVDC Isolation
- Regulated Output
- UL94V-0 Package Material
- Continuous Short Circuit Protection
- Internal SMD design
- 100% Burned In
- Efficiency to 70%

ECONOLINE

DC/DC-Converter

REC1.5- & REC1.8-SR/H1 Series

Selection Guide

Part Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)
DIP24 miniature (/SMD)	(VDC)	(VDC)	(mA)
REC1.5-xx3.3SR/H1	5, 12, 24	3.3	450
REC1.5-xx05SR/H1	5, 12, 24	5	300
REC1.5-xx09SR/H1	5, 12, 24	9	166
REC1.5-xx12SR/H1	5, 12, 24	12	125
REC1.5-xx15SR/H1	5, 12, 24	15	100
REC1.8-xx3.3SR/H1	5, 12, 24	3.3	500
REC1.8-xx05SR/H1	5, 12, 24	5	360
REC1.8-xx09SR/H1	5, 12, 24	9	200
REC1.8-xx12SR/H1	5, 12, 24	12	150
REC1.8-xx15SR/H1	5, 12, 24	15	120

* add suffix "/SMD" for SMD package, e.g. REC1.5-0505SR/H1/SMD

* add suffix "/M" for Metal Case, e.g. REC1.5-0505SR/H1/M

Specifications (Core Operating Area)

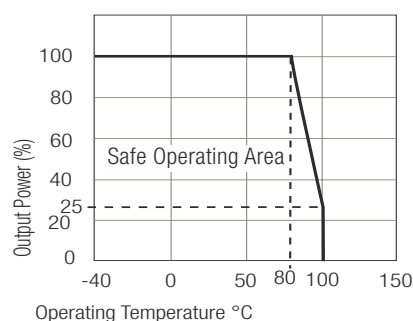
Input Voltage Range	±15% max		
Output Voltage Accuracy	±3% max.		
Line Voltage Regulation	±0.4% max		
Load Voltage Regulation (10% to 100% full load)	±0.8% max.		
Output Ripple and Noise (at 20MHz BW)	100mVp-p max.		
Operating Frequency	85kHz min.		
Efficiency	65% min.		
No Load Power Consumption	200mW max.		
Isolation Voltage	(tested for 1 second)	1000VDC min.	
Rated Working Voltage	(long term isolation)	see Application Notes	
Isolation Capacitance	20pF min. / 60pF max.		
Isolation Resistance	1 GΩ min.		
Short Circuit Protection	Continuous		
Short Circuit Protection	-40°C to +80°C (see Graph)		
Storage Temperature Range	-50°C to +125°C		
Temperature Coefficient	±0.02%/°C		
Relative Humidity	95% RH		
Thermal Impedance	Natural convection	20°C/W for metal case	
Package Weight	8.5g		
MTBF (+25°C)	} Detailed information see Application Notes chapter "MTBF"	using MIL-HDBK 217F	1000 x 10 ³ hours
(+80°C)		using MIL-HDBK 217F	150 x 10 ³ hours

**1.5/1.8 Watt
DIP24 minia-
ture & SMD
Single Output**



RECOM

Derating-Graph (Ambient Temperature)

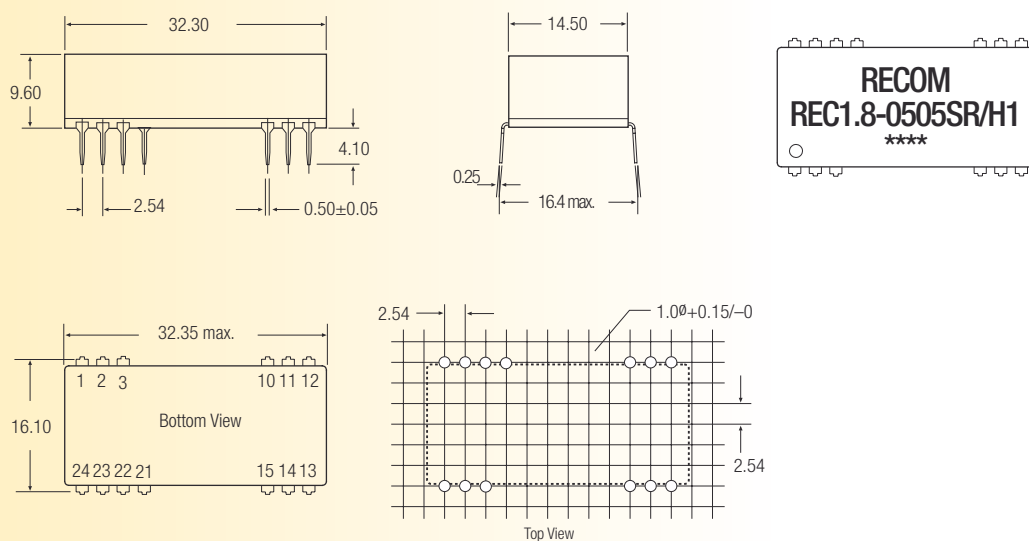


REC1.5-SR/H1 & REC1.8-SR/H1 Series

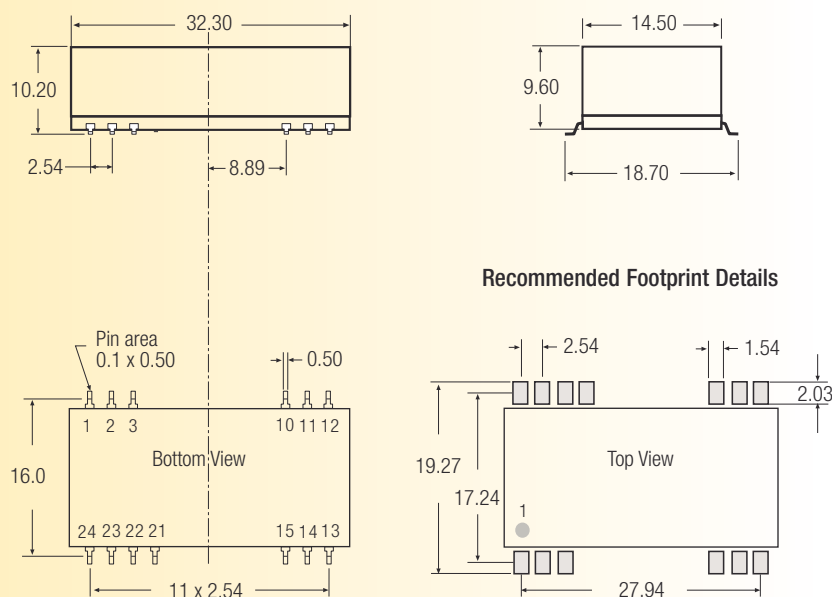
Package Style and Pinning (mm)

3rd angle projection

24 PIN DIP Miniature Package



24 PIN DIP SMD Package



Pin Connections

Pin #	Single
1 & 24	+Vin
2 & 23	NC
3 & 21	NC
22	NC
10 & 15	-Vout
11 & 14	+Vout
12 & 13	-Vin
NC = No Connection	

XX.X ± 0.5 mm
XX.XX ± 0.25 mm

Recommended Footprint Details