

Specifications (measured at $T_A = 25^\circ\text{C}$, nominal input voltage, full load and after warm-up)

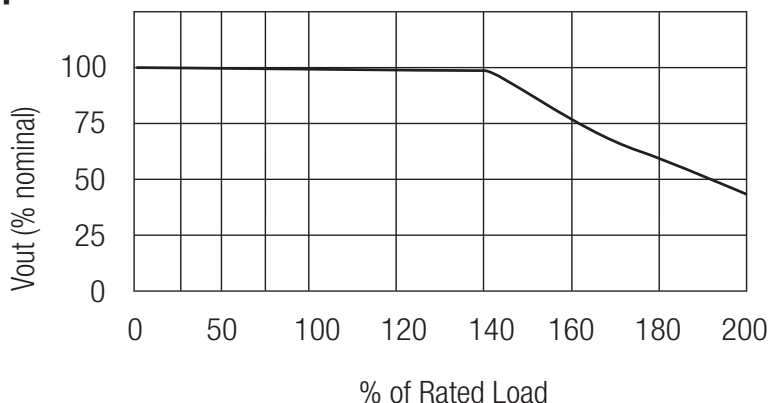
Input Voltage Range			2:1
Output Voltage Accuracy			±2% max.
Line Voltage Regulation			0.4% max.
Load Voltage Regulation (25% to 100% full load)			0.8% max.
Minimum Load			10% ⁽²⁾
Output Ripple and Noise (at 20MHz BW)		3.3V output type	100mVp-p max.
		5, 9, 12 and 15V output types	50mVp-p max.
Operating Frequency (Full Load)			150kHz min. / 240kHz max.
Input Filter			PI Network
Efficiency at Full Load			see Selection Guide
No Load Power Consumption			300mW max.
Isolation Voltage	H1-Suffix	(tested for 1 second)	1000VDC
		(rated for 1 minute**)	500VAC / 60Hz
	H2-Suffix	(tested for 1 second)	2000VDC
		(rated for 1 minute**)	1000VAC / 60Hz
	H3-Suffix	(tested for 1 second)	3000VDC
		(rated for 1 minute**)	1500VAC / 60Hz
Isolation Capacitance			50pFtyp.
Isolation Resistance			1 GΩ min.
Short Circuit Protection (Max temp. = 50°C during short circuit conditions)			Continuous, Auto Restart
Operating Temperature Range (free air convection)			-40°C to +71°C (see Graph)
Storage Temperature Range			-55°C to +125°C
Relative Humidity			95% RH
Case Material		Nickel Plated Metal with Non-Conductive Base	
Thermal Impedance		Natural convection	12°C/W
Package Weight			16g
Packing Quantity			15 pcs per Tube
MTBF (+25°C)		} Detailed Information see Application Notes chapter "MTBF"	using MIL-HDBK 217F
(+71°C)			using MIL-HDBK 217F
800 x 10 ³ hours			>200 x 10 ³ hours
Certifications			
UL General Safety		Report: E358085	UL 60950-1 1st Ed. C22.2 No. 60950-1-03 EN60950-1:2006 +A12:2011
EN General Safety		Report: SPCLVD1212007	
EN Medical Safety		Report: MDD1205098-3 + RM1205098-3 IEC/EN 60601-1 3rd Edition; Medical Report + ISO14971 Risk Assessment	

Notes

- 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.
- Note 2: The REC 7.5 series requires a minimum of 10% load on the output to maintain specified regulation. Operating under no-load conditions will not damage these devices; however, they may not meet all listed specifications.

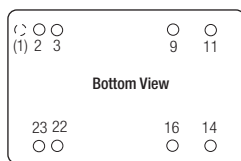
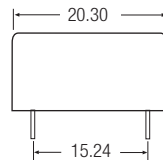
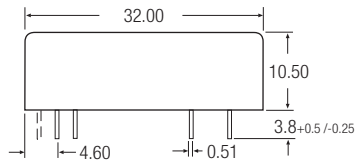
Typical Characteristics

Overload Response

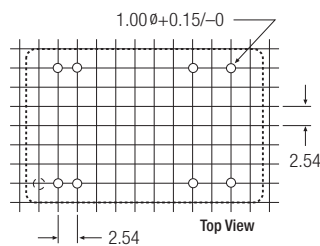


Package Style and Pinning (mm)

24 PIN DIP Package



Recommended Footprint Details



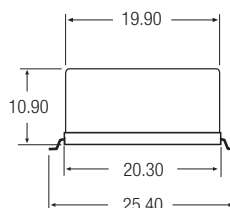
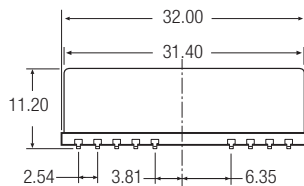
Pin Connections DIP24

Pin #	Single	Dual
1	CTRL/No Pin	CTRL/No Pin
2	-Vin	-Vin
3	-Vin	-Vin
9	NC	Com
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Com
22	+Vin	+Vin
23	+Vin	+Vin

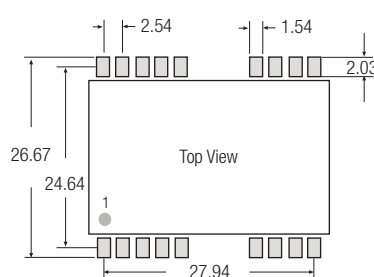
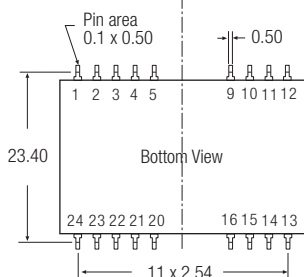
XX.X ± 0.5 mm
XX.XX ± 0.25 mm

24 PIN SMD Package

/H3/A/M/SMD combination is not allowed



Recommended Footprint Details



Pin Connections DIP24 SMD

Pin #	Single	Dual
1	CTRL/NC	CTRL/NC
2	-Vin	-Vin
3	-Vin	-Vin
9	NC	Com
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Com
22	+Vin	+Vin
23	+Vin	+Vin
1,4,5,10,12	NC	NC
13,15,20,21,24	NC	NC

NC = No Connection

XX.X ± 0.5 mm
XX.XX ± 0.25 mm

CTRL Option

ON = Open or $0V < V_{ctrl} < 1.2V$
OFF = $2.2V < V_{ctrl} < 12V$

