

## Features

- Efficiency up to 91%, no need for heatsinks!
- Pin-out compatible with LM78XX Linear Regs.
- Low profile (L\*W\*H=11.6\*8.5\*10.4mm)
- Wide input range (8V - 28V)
- Short Circuit Protection

## Description

The R-78E5.0-1.0 series switching regulators are ideally suited to replace 1 Amp 78xx linear regulators and are pin compatible. Efficiencies of up to 91% means that very little energy is wasted as heat so there is no need for any heat sinks with their additional space and mounting costs.

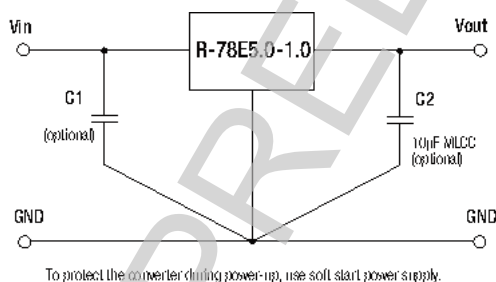
## Selection Guide

Part Number SIP3	Input Voltage (V)	Output Range (V)	Output Current (A)	Efficiency min. (%)
R-78E5.0-1.0	8-28	5	1.0	91

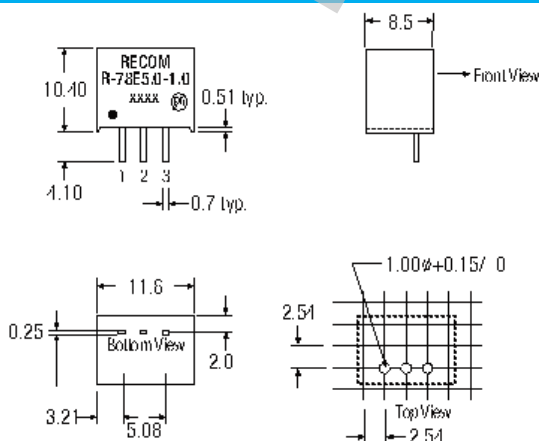
## Specifications (measured @ 25°C, at nominal input voltage 24V after warm-up time unless otherwise states )

Characteristics	Conditions	Min.	Typ.	Max.
Input Voltage Range		8V		28V
Output Voltage Range				5V
Output Current				1000mA
Short Circuit Protection			Automatic Restart	
Output Voltage Accuracy				±5%
Line Regulation	(@ Full load)			±1%
Load Regulation	(10-100%)			±1.5%
Ripple & Noise (20Mhz BW, @ Full load, 10uF MLCC)			50mVp-p typ.	
Switching Frequency			330kHz	
Operating Temperature Range		-40°C to +85°C		
Storage Temperature Range		-40°C to +125°C		

## Standard Application



## Package Style and Pinning (mm)



### Pin Connections

Pin #	Connection
1	+Vin
2	GND
3	+Vout
xx.x	± 0.5mm
xx.xx	± 0.25mm

**INNOLINE**  
DC/DC-Converter  
with 3 year Warranty

**RECOM**

**1.0 AMP**  
**Single**  
**Output**



**R-78E5.0-1.0**

## Derating-Graph (Ambient Temperature)

