

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.

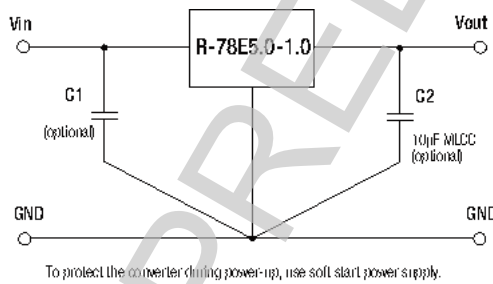
Selection Guide

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

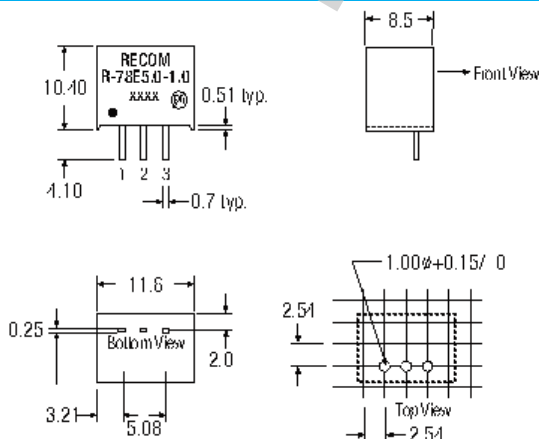
Specifications (measured @ 25°C, at nominal input voltage 24V after warm-up time unless otherwise states)

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

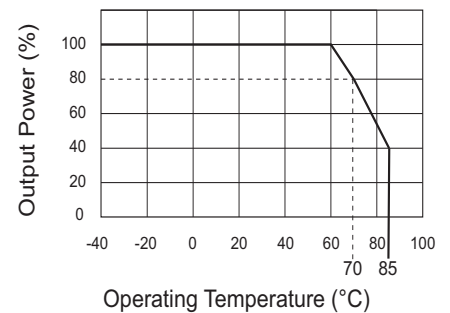
RECOM

1.0 AMP
Single
Output



R-78E5.0-1.0

Derating-Graph (Ambient Temperature)



The product information and specifications are subject to change without prior notice. All products are designed for non-safety critical commercial and industrial applications. The Buyer agrees to implement safeguards that anticipate the consequences of any failures that might cause harm, loss of life and/or damage property.

Mouser Electronics

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