### **Features**

- Low Cost Switching Regulator
- Efficiency up to 92 %
- Short Circuit Protection
- Pin Compatible with 78 Series Regulators
- 5V / 500 mA Output





# 0.5 AMP Single Output





**R-78E5.0** 

#### **Selection Guide**

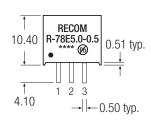
Part Number	Input Range	Output Voltage	Output Current	Efficiency
	(V)	(V)	(mA)	(%)
R-78E5.0-0.5	7 - 28	5.0	500	82 - 92

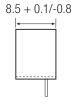
#### Specifications (valid at nominal input voltage 24V full load after warm-up time unless otherwise states)

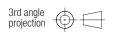
Input Voltage Range		7 - 28 VDC
Output Voltage		5.0 VDC
Output Current Range		5 - 500 mA
Output Voltage Accuracy		± 3% max.
Efficiency	at Vin = 7 VDC, lo = Full Load	92 % typ.
	at Vin = 24 VDC, lo = Full Load	82% typ.
Switching Frequency Vin = 24V		570 KHz typ.
Output Ripple & Noise (Note 1)	at Vin = 24 VDC, lo = Full Load	50mVp-p max.
Line Voltage Regulation		± 0.5 % max.
Load Voltage Regulation	10% to 100% Full Load	± 0.8 % max.
Short Circuit Protection		Automatic Restart
Operating Ambient Temperature Range	(see Derating Graph)	-40°C - +85°C
Storage Temperature Range		- 55°C - +125°C
Packing Quantity		42 pcs per tube
Note:		

Note:

#### Package Style and Pinning (mm)



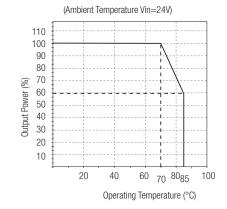




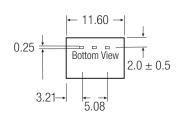
Pin #			
1	+Vin		
2	GND		
3	+Vout		

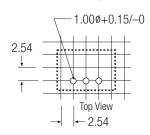
## **Derating-Graph**

(Ambient Temperature)



#### **Recommended Footprint Details**





<sup>1.</sup> To measure the Output Ripple & Noise use 0.1  $\mu\text{F}/50\text{V}$  @ 20MHz BW