Features

- Low Cost Switching Regulator
- Efficiency up to 92 %
- Short Circuit Protection
- Pin Compatible with 78 Series Regulators
- 3.3V, 5V / 500 mA Output





500mA Single Output





R-78E

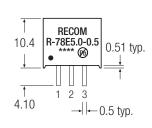
Selection Guide

Part Number	Input Range	Output Voltage	Output Current	Efficiency
	(V)	(V)	(mA)	(%)
R-78E5.0-0.5	7 - 28	5	500	82 - 92
R-78E3.3-0.5	6 - 28	3.3	500	75 - 88

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

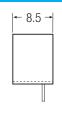
Input Voltage Range	5V Version	7 - 28 VDC
	3.3V Version	6 - 28 VDC
Output Voltage		5.0 VDC
		3.3VDC
Output Current Range		5 - 500 mA
Output Voltage Accuracy		± 3% max.
Efficiency		see Table
Switching Frequency Vin = 24V		570 KHz typ.
Output Ripple & Noise @ 20MHz	at Vin = 24 VDC, lo = Full Load	50mVp-p max.
Line Voltage Regulation		± 0.5 % max.
Load Voltage Regulation	10% to 100% Full Load	± 1 % 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
Thermal Shutdown	Internal IC Junction	+165°C
Output Current Limit	all Series	2300mA min. / 3500mA typ.
(when Vin = 12V)		

Package Style and Pinning (mm)



0.25

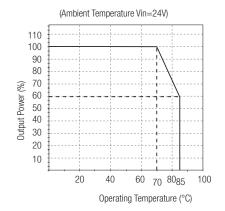
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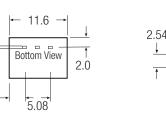


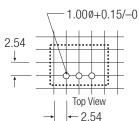
Derating-Graph

(Ambient Temperature)



Recommended Footprint Details





Pin Connections	
Pin #	
1	+Vin
2	GND
3	+Vout
$xx.x \pm 0.5$ mm $xx.xx \pm 0.25$ mm	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

RECOM:

R-78E3.3-0.5

RECOM Power:

R-78E5.0-0.5