

Features

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

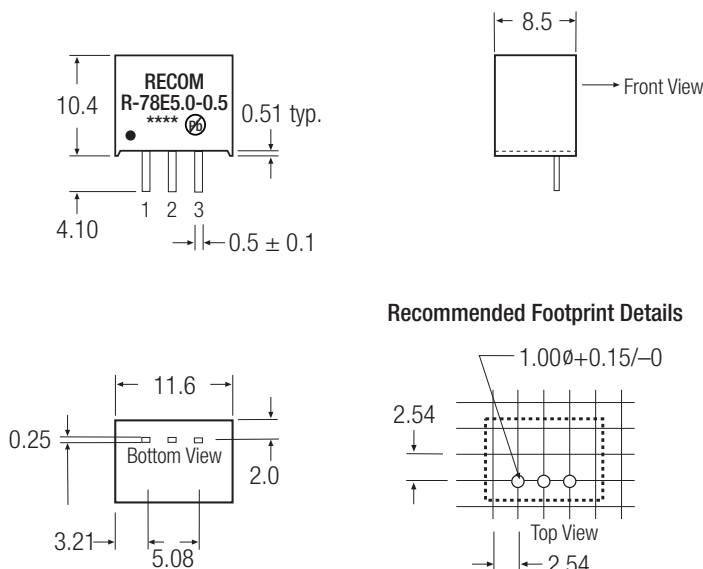
Selection Guide

Part Number	Input Range (V)	Output Voltage (V)	Output Current (mA)	Efficiency (%)	Max. Capacitive Load
R-78E5.0-0.5	7 - 28	5	500	82 - 92	220µF
R-78E3.3-0.5	6 - 28	3.3	500	75 - 88	220µF

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

Input Voltage Range	5VDC	7 - 28 VDC
	3.3VDC	6 - 28 VDC
Output Voltage		5.0 VDC
		3.3VDC
Output Current Range		5 - 500 mA
Quiescent Current	Vin = 24V	1.5mA typ.
Output Voltage Accuracy		± 3% max.
Efficiency		see Table
Switching Frequency Vin = 24V		570 KHz typ.
Output Ripple & Noise @ 20MHz	at Vin = 24 VDC, Io = 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
Dimensions (LxWxH)		11.6 x 8.5 x
10.4mm		
Weight		2g
Packing Quantity		42 pcs per tube
Certifications		
IEC/EN General Safety	Report: SPCLVD 1407030-1	IEC/EN-60950-1, 2nd Edition
MTBF (25°C)	MIL-HDBK-217F	4185 x 10 ³ hours
(70°C)	MIL-HDBT-217F	2182 x 10 ³ hours

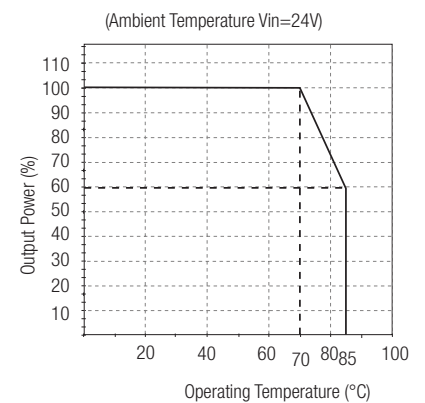
Package Style and Pinning (mm)



Pin Connections

Pin #	Connection
1	+Vin
2	GND
3	+Vout

xx.x ± 0.5mm
xx.xx ± 0.25mm



Refer to Application Notes

INNOLINE

DC/DC-Converter

with 3 year Warranty

RECOM

500mA

Single Output



IEC/EN-60950-1 Certified

R-78E-0.5

Derating-Graph

(Ambient Temperature)

The product information and specifications are subject to change without prior notice. RECOM products are not authorized for use in safety-critical applications (such as life support) without RECOM's explicit written consent. A safety-critical application is defined as an application where a failure of a RECOM product may reasonably be expected to endanger or cause loss of life, inflict bodily harm or damage property. The buyer shall indemnify and hold harmless RECOM, its affiliated companies and its representatives against any damage claims in connection with the unauthorized use of RECOM products in such safety-critical applications.

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