

Features

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

INNOLINE
DC/DC-Converter

RECOM

Selection Guide

Part Number	Input Range (V)	Output Voltage (V)	Output Current (mA)	Efficiency (%)
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, Io = Full Load	92 % typ.
	at Vin = 24 VDC, Io = Full Load	82% typ.
Switching Frequency Vin = 24V		570 KHz typ.
Output Ripple & Noise (Note 1)	at Vin = 24 VDC, Io = 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

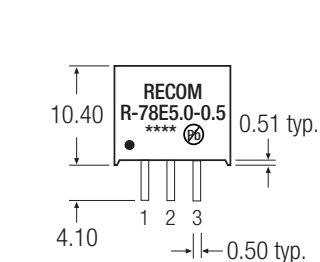
Note:

1. To measure the Output Ripple & Noise use 0.1µF/50V @ 20MHz BW



R-78E5.0

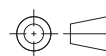
Package Style and Pinning (mm)



8.5 + 0.1/-0.8



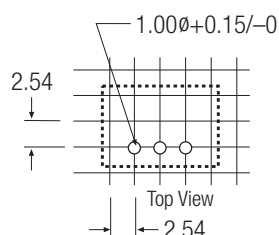
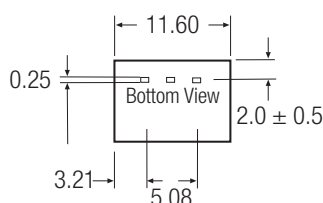
3rd angle projection



Pin Connections

Pin #	
1	+Vin
2	GND
3	+Vout

Recommended Footprint Details



Derating-Graph (Ambient Temperature)

