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

Selection Guide

<table>
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<tr>
<th>Part Number</th>
<th>Input Voltage Range (V)</th>
<th>Output Voltage (V)</th>
<th>Output Current (mA)</th>
<th>Efficiency (%)</th>
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<tr>
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<td>7 - 28</td>
<td>5.0</td>
<td>500</td>
<td>82 - 92</td>
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</table>

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

- 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: -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

Package Style and Pinning (mm)

Derating-Graph
(Ambient Temperature)

R-78E5.0