Isolated µModule Power Products

Isolated µModule DC/DC Converters

Linear Technology’s isolated µModule® power products provide simple and compact isolated power supply solutions. These products include isolated transformer, control circuitry, power switch and other supporting components in a small, low profile BGA package. Only a few resistors, input and output capacitors are required to complete the design.

<table>
<thead>
<tr>
<th>Isolated Voltage</th>
<th>Output Channels</th>
<th>LDO Out</th>
<th>Input Voltage (V)</th>
<th>Min</th>
<th>Max</th>
<th>Output Voltage (V)</th>
<th>Min</th>
<th>Max</th>
<th>Output Ripple</th>
<th>Output Power (24V to 5V)</th>
<th>UL Recognized</th>
<th>BGA Package Dimensions (mm)</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>725VDC</td>
<td>1</td>
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<td>3.1</td>
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<td>–</td>
<td>2.5</td>
<td>12</td>
<td>–</td>
<td>20mVRMS</td>
<td>1.5W</td>
<td>–</td>
<td>9 x 11.25 x 4.92</td>
<td>LTM8047</td>
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<td>1.5W Combined*</td>
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</table>

*Combined isolated output and LDO output
LTM8067: 2.8V$_{\text{IN}}$ to 40V$_{\text{IN}}$ Isolated µModule DC/DC Converter
- 2kVAC Isolated µModule Converter
- UL60950 Recognized File 464570
- Wide Input Voltage Range: 2.8V to 40V
- Up to 450mA Output Current (V$_{\text{IN}}$ = 24V, V$_{\text{OUT}}$ = 5V)
- Output Adjustable from 2.5V to 24V
- 9mm × 11.25mm × 4.92mm BGA Package

LTM8068: 2.8V$_{\text{IN}}$ to 40V$_{\text{IN}}$ Isolated µModule DC/DC Converter with LDO Post Regulator
- 2kVAC Isolated µModule Converter
- UL60950 Recognized File E464570
- Wide Input Voltage Range: 2.8V to 40V
- V$_{\text{OUT1}}$ Output: Up to 450mA (V$_{\text{IN}}$ = 24V, V$_{\text{OUT1}}$ = 5V) 2.5V to 18V Output Range
- V$_{\text{OUT2}}$ Low Noise Linear Post Regulator: Up to 300mA 1.2V to 18V Output Range
- 9mm × 11.25mm × 4.92mm BGA Package

Maximum Output Current vs V$_{\text{IN}}$
V$_{\text{OUT}}$ = 5V

Total Output Current vs V$_{\text{IN}}$
V$_{\text{OUT}}$ = 5V