MCP16301 High Voltage Buck-Boost Demo Board

Part Number: ADM00399

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The MCP16301 High Voltage Buck-Boost Demo Board is designed to operate from a 5V to 30V input and regulate the output to 12V. Test points for input power and load are provided to demonstrate the capability of the demo board over the entire range. The MCP16301 High Voltage Buck-Boost Demo Board was designed using small surface-mount components to show application size for a high voltage buck-boost design.

Devices Supported: MCP16301

Features | Package Contents

- Input Voltage Range: 4.0V to 30V
- Output Voltage Range: 2.0V to 15V
- Up to 96% Typical Efficiency
- 2% Output Voltage Accuracy
- Integrated N-Channel Switch: 460 mΩ
- 500 kHz Fixed Frequency
- Low Device Shutdown Current
- Peak Current Mode Control
- Internal Compensation
- Internal Soft-Start
- Cycle-by-Cycle Peak Current Limit
- Under Voltage Lockout (UVLO): 3.5V
- Overtemperature Protection

Documentation & Software

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Documents	Last Updated	Size
MCP16301 High Voltage Buck-Boost Demo Board (ADM00399) BOM	2/3/2016 9:19:09 AM	21KB
MCP16301/MCP16301H Data Sheet	6/11/2015 9:30:13 AM	1MB
MCP16301 High Voltage Buck-Boost Demo Board (ADM00399) Schematics	12/13/2013 1:29:50 PM	28KB
MCP16301 High Voltage Buck-Boost Demo Board (ADM00399) Gerbers	12/13/2013 1:28:58 PM	38KB
MCP16301	10/21/2012 8:39:34 PM	3KB

MCP16301 High Voltage Buck-Boost Demo Board User's Guide	1/12/2012 10:34:41 AM	360KB