

MCP16301 5V/600mA Low Noise Evaluation Board

Part Number: ADM00433

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The MCP16301 5V/600mA Low Noise Evaluation Board is used to demonstrate a high voltage input DC-DC converter design, which can deliver high efficiency, while minimizing high-frequency switching noise. The board steps down high input voltages, up to 30V, to a low output voltage, having more than 90% efficiency and a minimum of 30 mV output ripple. High-frequency input/output noise generated by the switching converters can reach high-noise levels that interfere with other devices powered from the same source. The high amplitude of high-frequency noise can disturb some RF systems. High efficiency is achieved with the MCP16301 buck converter by switching the integrated N-Channel MOSFET at a high speed. The evaluation board is optimized for 12V Input and 100 mA load.



Devices Supported: MCP16301

Features

Package Contents

- Input voltage: 6 to 30V
- Output voltage: 5V
- Output capability: 600 mA load current
- Output ripple plus noise: 30 mVp-p @ 12V input and 100 mA load
- Low radiated noise
- Efficiency: up to 91% @ 12V input

Documentation & Software

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AppNotes	Last Updated	Size	
AN1466 - Reduction of the High-Frequency Switching Noise in the MCP16301 High Voltage Buck Converter	2/15/2013 3:06:36 PM	803KB	
Documents	Last Updated	Size	
MCP16301 Evaluation Board User's Guide	8/29/2013 2:52:14 PM	537KB	
MCP16301 5V/600mA Low Noise Evaluation Board (ADM00433) BOM	7/2/2013 1:27:24 PM	14KB	
MCP16301 5V/600mA Low Noise Evaluation Board (ADM00433) Schematics	7/1/2013 2:01:07 PM	137KB	
MCP16301 5V/600mA Low Noise Evaluation Board (ADM00433) Gerbers	7/1/2013 12:13:16 PM	325KB	
MCP16301 Design Analyzer v1.0	6/23/2011 8:03:59 AM	1MB	



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