

MCP19035 600 kHz Synchronous Buck Controller Evaluation Board

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Part Number: ADM00445

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The MCP19035 600 kHz Synchronous Buck Controller Evaluation Board is a compact, highly efficient, step-down voltage regulator that will convert the input voltage rail (typically 12V) to 1.8V regulated output voltage. The maximum output current for this step-down converter is 10A. The board demonstrates the capabilities of the MCP19035 600 kHz Synchronous Buck Converter, as well as Microchip's high-performance power MOSFET transistors. Test points for various signals are provided for measuring different parameters of the converter. The evaluation board can be modified to support output voltages ranging from 0.9V to 3.3V by changing a single resistor.


Devices Supported: MCP19035

Features

Package Contents

- Input Voltage Range: 8V to 14V
- Output Voltage: 1.8V (can be adjusted by changing one resistor between 0.9V and 3.3V)
- Maximum Output Current: 10A
- 88% typical efficiency at 1.8V/10A output and 12V input
- 600 kHz fixed switching frequency
- On-board High Performance Power MOSFET Transistors
- Overcurrent Protection for High and Low-Side MOSFETs
- Power Good (PGOOD) output for monitoring the output voltage quality
- Shutdown input for placing the converter in low-power standby mode
- Under Voltage Lockout (UVLO) with 4.2V and 3.6V typical thresholds

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Documents	Last Updated	Size	
Quick Guide to Microchip Development Tools	8/5/2013 11:14:00 AM	7MB	
MCP19035 Design Analyzer v1.0	11/8/2012 11:11:35 AM	483KB	
MCP19035 Data Sheet	3/19/2013 1:44:32 PM	899KB	
MCP19035 600 kHz User's Guide	4/26/2013 9:34:58 AM	729KB	
MCP19035 600 kHz Sync Buck Controller Eval Board (ADM00445) Gerbers	5/14/2013 5:10:19 PM	395KB	
MCP19035 600 kHz Sync Buck Controller Eval Board (ADM00445) Schematics	5/15/2013 10:32:44 AM	97KB	
MCP19035 600 kHz Sync Buck Controller Eval Board (ADM00445) BOM	5/15/2013 12:44:17 PM	15KB	