

MCP1631HV Multi-Chemistry Battery Charger Reference Design_2

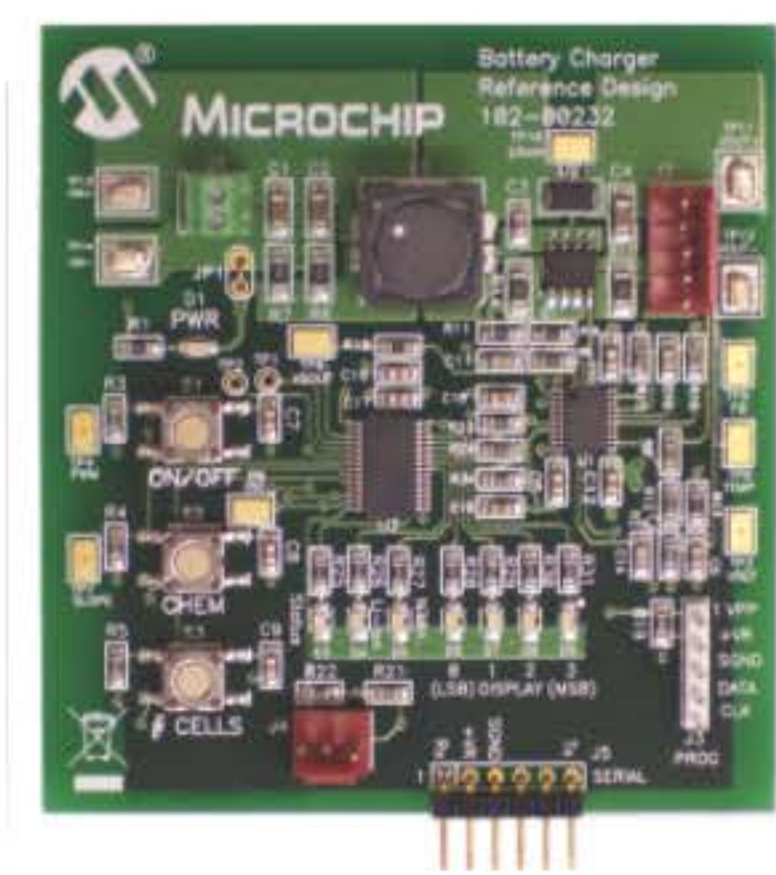
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Part Number: MCP1631RD-MCC2

Documentation & Software

The MCP1631HV Multi-Chemistry reference design board is used to charge one to five NiMH or NiCd batteries, charge one or two cell Li-Ion batteries, or drive one or two 1W LEDs. The board uses the MCP1631HV high speed analog PWM and PIC16F883 to generate the charge algorithm for NiMH, NiCd or Li-Ion batteries. The MCP1631HV Multi-Chemistry Battery Charger is used to evaluate Microchip's MCP1631HV in a SEPIC power converter application.



Features Package Contents

- Input Operating Voltage Range - +5.3V to +16V
- Maximum of 2A Charge Current for single cell Li-Ion
- Charge NiMH, NiCd or Li-Ion Chemistries
- Charge 1 cell or 2 cell Li-Ion Batteries in Series
- Charge 1 cell to 5 cell NiMH or NiCd Batteries in Series
- Drive one or two 1 Watt LEDs in series.
- Select Chemistry and Cells using push-buttons
- ON/OFF switch
- Charge Status Indication
- Programmable Charge Profile
- Programmable Overvoltage Shutdown (1.8V/Cell for NiMH/NiCd or 4.4V/Cell for Li-Ion)
- Complete "C" source code is provided

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Documents	Last Updated	Size	
PIC16F882/883/884/886/887 Data Sheet	11/12/2012 4:29:57 PM	6MB	
MCP1631HV Multi-Chemistry Battery Charger Reference Design (HiTech C) Firmware	1/27/2012 4:27:28 PM	108KB	
MCP1631HV Multi-Chemistry Battery Charger Reference Design	2/9/2009 10:06:09 AM	690KB	
MCP1631HV Multi-Chemistry Battery Charger Reference Design Gerbers	2/6/2009 11:22:08 AM	81KB	
MCP1631HV Multi-Chemistry Battery Charger Reference Design Firmware	2/6/2009 11:18:42 AM	38KB	
MCP1631/HV/MCP1631V/HV High-Speed, Pulse Width Modulator	12/2/2008 3:16:56 PM	565KB	