

Home▶ Products ▶ Development Tools▶

Other Links

Buy/Sample Options

MCP3905RD-PM1

Contact Microchip

Development Tool Selector

Microchip Advanced Parts Selector (MAPS)

Programming

Design Center Home

Programming Home

Programming Specifications

Code Examples

Code Templates

Firmware Drivers

Gerber Files

Application Maestro™ Software

Resources

Technical Support

24/7 Technical Support

Third Party Development Tools and Design Resources

Online Discussion Groups

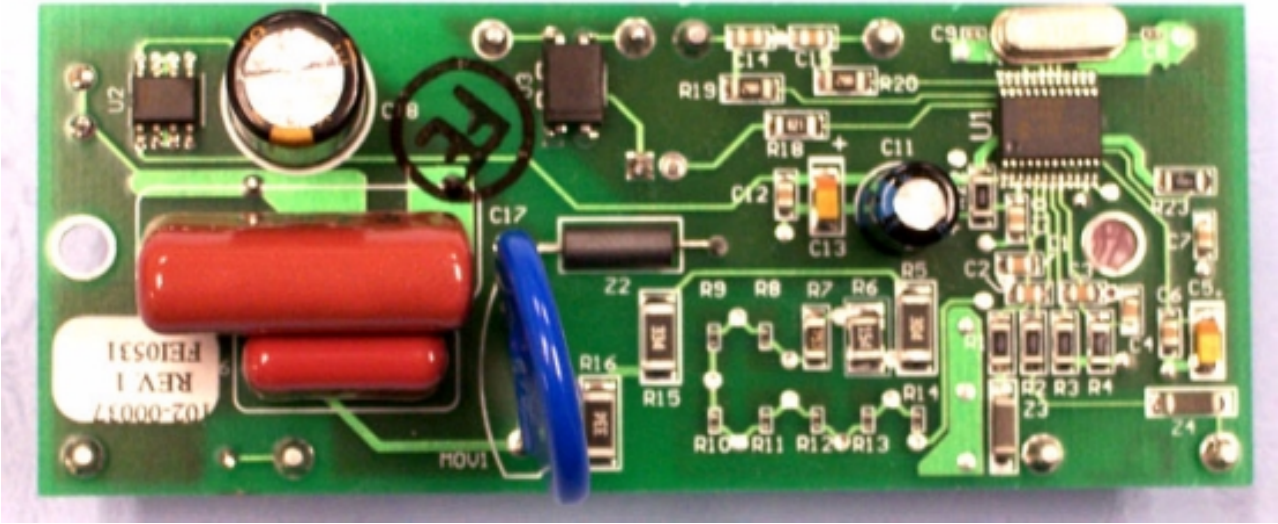
MCP3905 Energy Meter Reference Design [Buy it Now](#)

Part Number: MCP3905RD -PM1

Devices Supported: MCP3905

Summary Description:

The MCP3905 Energy Meter Reference Design is a stand-alone low cost energy meter. It can act as either a stand alone energy meter, or as the analog front end design for LCD microcontroller based meters. The MCP3905 design is specified with an energy measurement error of 0.1% typical across 1:500 dynamic range for high accurate energy meter designs. This reference design is compliant with EMC requirements per energy metering standards IEC62053 and legacy IEC61036, IEC1046 and IEC687.



Features:

- ◉ Demonstration board is a ready to use single -chip low cost energy meter
- ◉ Direct connection to line for energy meter, no transformers required
- ◉ On-board power supply circuitry
- ◉ Resistive network and Output LED for meter calibration,
- ◉ Resistor shorts for gain and frequency selection

Downloads

Title	Date Published	Size	D/L
AN994 - IEC Compliant Active-Energy Meter Design Using the MCP3905/6	7/26/2005 2:09:00 PM	514 KB	
Analog and Interface Solutions Brochure	1/30/2008 2:14:00 PM	633 KB	
Low Cost Development Tools Guide	12/19/2007 2:23:00 PM	1498 KB	
MCP3905 Power Meter Reference Design Gerbers	1/11/2006 2:41:00 PM	156 KB	
MCP3905/06 Data Sheet (Chinese)	4/2/2007 11:27:03 AM	581 KB	
MCP3905/6 Data Sheet	2/2/2007 9:24:55 AM	345 KB	
MCP3905/6 Energy Meter Reference Design User's Guide	7/28/2005 4:30:00 PM	333 KB	
MCP3905/6 Energy Meter Reference Design User's Guide (Chinese)	9/5/2006 11:40:37 PM	792 KB	