

MCP6V01 Thermocouple Auto-Zeroed Reference Design

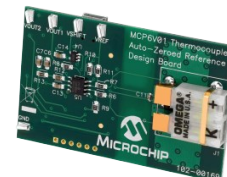
Part Number: MCP6V01RD-TCPL

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The MCP6V01 Thermocouple Auto-Zeroed Reference Design demonstrates how to use a difference amplifier system to measure electromotive force (EMF) voltage at the cold junction of thermocouple in order to accurately measure temperature at the hot junction. This can be done by using the MCP6V01 auto-zeroed op amp because of its ultra low offset voltage (VOS) and high common mode rejection ratio (CMRR)



Devices Supported: MCP6V01 Auto-Zeroed Op Amp

Features

Package Contents

- Use a difference amplifier system as an analog sensor conditioning circuit
- Use the K-type thermocouple to sense temperature
- Temperature range is from -100°C to +1000°C
- Use MCP9800 Temperature Sensor for cold junction compensation
- Use the USB interface to transfer data to PC
- Test points for bench work

Documentation & Software

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AppNotes	Last Updated	Size	
AN1306 - Thermocouple Circuit Using MCP6V01 and PIC18F2550	12/18/2009 8:45:31 AM	255KB	
Documents	Last Updated	Size	
Thermal Management Utility (v1.5.5)	4/11/2017 9:59:35 AM	6MB	
MCP6V01/2/3 Data Sheet	4/25/2014 4:20:54 PM	999KB	
MCP6V01 Thermocouple Auto-Zeroed Reference Design	12/19/2008 10:24:11 AM	654KB	
MCP6V01 Thermocouple Auto-Zeroed Reference Design Firmware	8/29/2008 11:42:40 AM	300KB	
MCP6V01 Thermocouple Auto-Zeroed Reference Design Gerbers	8/28/2008 2:34:50 PM	271KB	

