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DS20005471C

I^2C EERAM PICtail™ Plus Daughter Board with mikroBUS™ Connector Information Sheet

Overview

The Microchip Technology Inc. 47XXX series of EERAM devices are Serial SRAM with a matching EEPROM backup array. The 47XXX provides infinite read and write cycles to the SRAM while the EEPROM cells provide high-endurance, nonvolatile storage of data. The I^2C PICtail Plus daughter board is an evaluation board based around the 47C04 and 47L16 I^2C EERAM devices. The board is designed to interface with the Explorer series of development boards, and also with any mikroBUS™ compatible boards.

Key Features of the Board

- 4 Kbit and 16 Kbit I^2C Serial EERAM
- Follows the published recommended capacitor selection for the EERAM device
- Test points with probe loops for SCL, SDA, V_{CC} and GND
- On-board pull-ups for I^2C bus operation
- SMD jumper options for 3.3V and 5V operation
- On-board RC filter ensures V_{CC} ramp rate adheres to data sheet requirements
- 0.1" two-way jumper for V_{CAP}/V_{CC} operation
- PICtail™ Plus and mikroBUS™ connectors

Getting Started

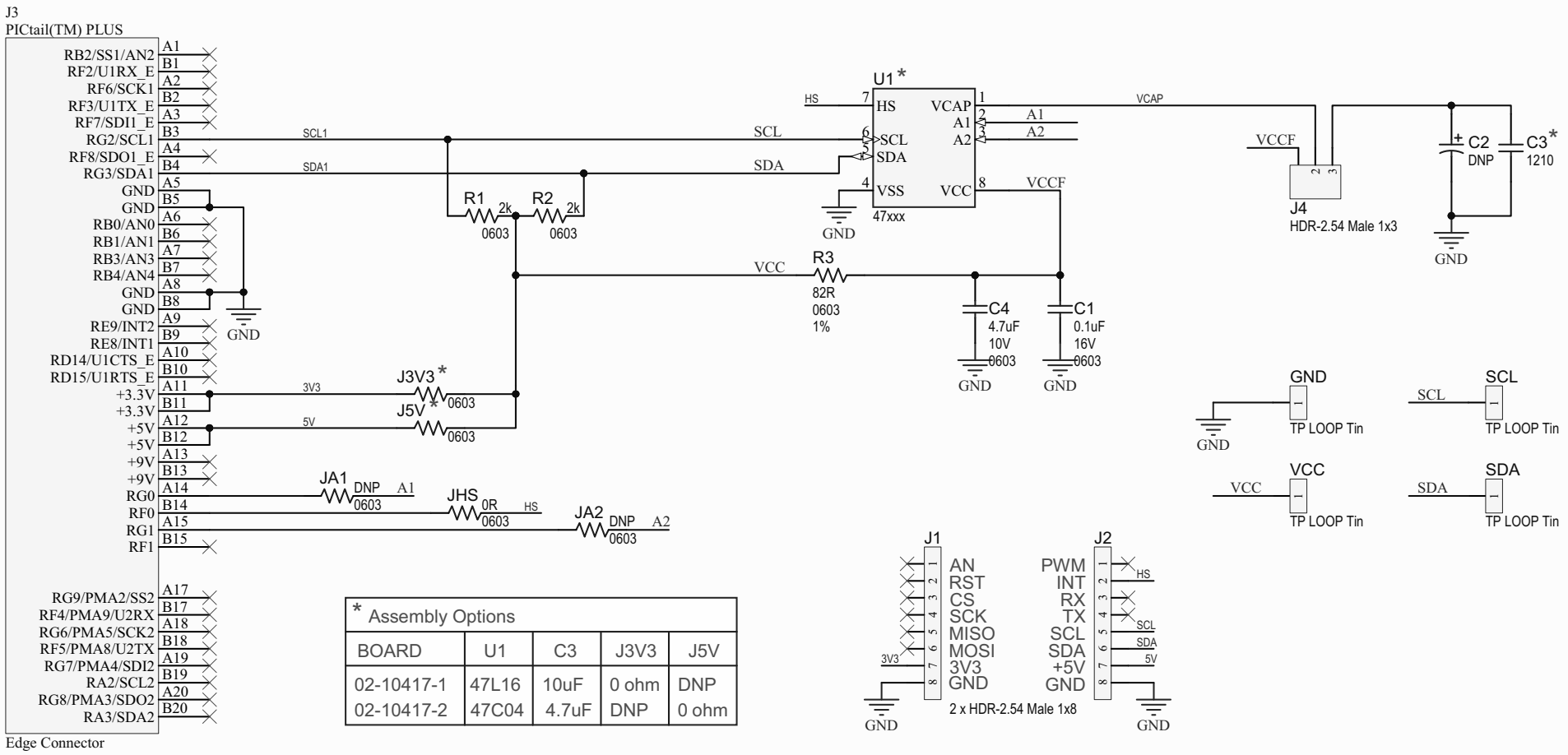
The EERAM PICtail Plus daughter board allows you to get started right out of the box. By using the daughter board and one of the microcontroller development boards that support the PICtail Plus series of connectors, system firmware can be developed quickly using known good hardware.

All of the application notes written for the EERAM family are designed around the EERAM PICtail Plus daughter board. The installed capacitor provides the rated necessary charge for correct AutoStore operation.

Additional Information

For additional information please visit www.microchip.com/EERAM.

I²C EERAM PICtail™ Plus Schematic



* Assembly Options

BOARD	U1	C3	J3V3	J5V
02-10417-1	47L16	10uF	0 ohm	DNP
02-10417-2	47C04	4.7uF	DNP	0 ohm