BILL OF MATERIAL TC4 Shield, Version 4.00 Part Value Device Package DigiKey Cat. Description SURFACE MOUNT COMPONENTS 18-bit multi-channel delta-sigma AD converter with I2C ADC1 MCP3424SL MCP3424SL SO14 MCP3424-E/SL-ND interface. Microchip. C1 10uF C-EUC1206 C1206 495-2237-1-ND CAPACITOR, Tantalum (SM) C4 0.1uF C-EUC1206 C1206 445-4007-1-ND CAPACITOR, CERAMIC (SM) D1 S1AB-13-F DIODE-DO214AA DO214AA DIODE (SM) S1AB-FDICT-ND IC1 24LC512 SO-08M Serial EEPROM 24LC512-I/SM 24LC512-I/SM-ND R3 2K R-US R1206 R1206 RESISTOR (SM) P2.0KECT-ND R4 2K R-US R1206 R1206 P2.0KECT-ND RESISTOR (SM) Temperature sensor I2C output, Microchip. U1 MCP9800 MCP9800 SOT23-5L MCP9800A0T-M/OTCT-ND THRU-HOLE COMPONENTS ANLG1 PINHD-1X3 1X03 A26514-40-ND PIN HEADER ANLG2 PINHD-1X3 1X03 (note 1) PIN HEADER C2 0.1uF C-EU025-025X050 C025-025X050 BC1160CT-ND CAPACITOR, CERAMIC (THRU) С3 0.1uF C-EU025-025X050 C025-025X050 CAPACITOR, CERAMIC (THRU) BC1160CT-ND 1/03 PINHD-1X2 1X02 PIN HEADER, 90 DEG A32705-40-ND I2C PINHD-1X4 1X04 (note 1) PIN HEADER J1 DIGITAL M08 1X08 (note 4) Header 8 J2_ANALOG M06SIP 1X06 (note 4) Header 6 J3 DIGITAL M08 1X08 (note 4) Header 8 POWER M06SIP 1X06 (note 4) Header 6 JEE3 PINHD-1X6 1X06 (notes 1, 2) PIN HEADER **GNDPT** JP1E JP1 (notes 1, 2) PIN HEADER LCD PINHD-1X8 1X08 (note 3) PIN HEADER, 90 DEG OT1 PINHD-1X2 1X02 (note 3) PIN HEADER, 90 DEG OT2 PINHD-1X2 1X02 PIN HEADER, 90 DEG (note 3) Q1 2N3904 2N3904 TO92D 2N3904FS-ND NPN TRANSISTOR Q2 2N3904 2N3904 TO92D 2N3904FS-ND NPN TRANSISTOR R1 4.7K R-US 0204/7 0204/7 P4.7KBACT-ND RESISTOR (THRU) R2 4.7K R-US_0204/7 0204/7 P4.7KBACT-ND RESISTOR (THRU) TC1 MPT 0.5/2-2.54 2POL254 277-1273-ND PHOENIX CONTACT NO. 1725656 TC2 MPT 0.5/2-2.54 2POL254 277-1273-ND PHOENIX CONTACT NO. 1725656 TC3 MPT 0.5/2-2.54 2POL254 277-1273-ND PHOENIX CONTACT NO. 1725656 TC4 MPT 0.5/2-2.54 2POL254 277-1273-ND PHOENIX CONTACT NO. 1725656 RST B3F-1020 SW402-ND Omron SWITCH TACT 6MM MOM 100GF Notes JGG 1. Buy one 40-pin vertical breakaway header strip and use it for all. 3/12/2011 2. This item is optional. Rev. 5/19/2011 3. Buy one 40-pin 90 degree breakaway header strip and use it for all. 4. Sets of stackable headers are available from Adafruit.com http://www.adafruit.com/index.php?main_page=product_info&products_id=85