

BILL OF MATERIAL					
TC4 Shield, Version 4.00					
Part	Value	Device	Package	DigiKey Cat.	Description
ADC1	MCP3424SL	MCP3424SL	SO14	MCP3424-E/SL-ND	18-bit multi-channel delta-sigma AD converter with I2C interface. Microchip.
ANLG1		PINHD-1X3	1X03	A26514-40-ND	PIN HEADER
ANLG2		PINHD-1X3	1X03	(note 1)	PIN HEADER
C1	10uF	C-EUC1206	C1206	495-2237-1-ND	CAPACITOR, Tantalum (SM)
C2	0.1uF	C-EU025-025X050	C025-025X050	BC1160CT-ND	CAPACITOR, CERAMIC (THRU)
C3	0.1uF	C-EU025-025X050	C025-025X050	BC1160CT-ND	CAPACITOR, CERAMIC (THRU)
C4	0.1uF	C-EUC1206	C1206	445-4007-1-ND	CAPACITOR, CERAMIC (SM)
D1	S1AB-13-F	DIODE-DO214AA	DO214AA	S1AB-FDICT-ND	DIODE (SM)
I/O3		PINHD-1X2	1X02	A32705-40-ND	PIN HEADER, 90 DEG
I2C		PINHD-1X4	1X04	(note 1)	PIN HEADER
IC1	24LC512	24LC512-I/SM	SO-08M	24LC512-I/SM-ND	Serial EEPROM
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	(note 3)	PIN HEADER, 90 DEG
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)
R3	2K	R-US_R1206	R1206	P2.0KECT-ND	RESISTOR (SM)
R4	2K	R-US_R1206	R1206	P2.0KECT-ND	RESISTOR (SM)
TC1		MPT2	2POL254	277-1273-ND	PHOENIX CONNECTOR
TC2		MPT2	2POL254	277-1273-ND	PHOENIX CONNECTOR
TC3		MPT2	2POL254	277-1273-ND	PHOENIX CONNECTOR
TC4		MPT2	2POL254	277-1273-ND	PHOENIX CONNECTOR
U1	MCP9800	MCP9800	SOT23-5L	MCP9800A0T-M/OTCT-ND	Temperature sensor I2C output, Microchip.
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.				
	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				
	<a href="http://www.adafruit.com/index.php?main_page=product_info&amp;products_id=85">http://www.adafruit.com/index.php?main_page=product_info&amp;products_id=85</a>				