



Project Time Box Project
Title ADC Board
Designer Nicolas Boucquey
File ADCBoardBOM.ods
Date 07/06/16

Reference	Quantity	Description	Value	Manufacturer P/N	Case
C10, C51, C57, C58, C66, C67, C72, C79, C81, C83, C84, C85, C86, C9, C69	15	±10% 50V CER X5R Capacitor	4u7	GENERIC C0805_4.7UF_50V_10%_X5R	0805
C1, C103, C104, C105, C106, C107, C115, C117, C120, C124, C125, C18, C19, C20, C21, C22, C24, C3, C35, C36, C39, C40, C5, C53, C7, C71, C74, C77, C91, C92, C93, C94, C44, C78	34	±10% 50V CER X7R Capacitor	100n	GENERIC C0603_100NF_50V_10%_X7R	0603
C2, C4, C6, C8, C126	5	±0.25pF 50V CER C0G/NP0 Capacitor	5p	GENERIC C0402_5PF_50V_±0.25pF_C0G	0402
C118, C121, C122, C123, C26, C27, C28, C29, C31, C41, C42	11	±5% 25V CER C0G/NP0 Capacitor	10n	GENERIC C0603_10NF_25V_5%_C0G	0603
C101, C102, C108, C109, C110, C114, C116, C119, C12, C13, C14, C15, C17, C32, C33, C34, C37, C38, C47, C56, C73, C89, C90, C95, C96, C80, C76	27	±10% 16V CER X7R Capacitor	1u	GENERIC C0603_1UF_16V_10%_X7R	0603
C45, C46, C49, C50, C52, C55, C59, C60, C62, C64, C65, C75	12	±10% 50V CER X5R Capacitor	10u	GENERIC C1206_10UF_50V_10%_X5R	1206
C48	1	±10% 16V CER X7R Capacitor	470n	GENERIC C0603_470NF_16V_10%_X7R	0603
C54	1	±5% 16V CER COG/NP0 Capacitor	220p	GENERIC C0603_220PF_16V_5%_C0G	0603
C82	1	±5% 16V CER X7R Capacitor	33n	GENERIC C0402_33NF_16V_5%_X7R	0402
C100, C111, C112, C113, C43, C61, C63, C68, C70, C87, C88, C97, C98, C99	14	±10% 16V CER X7R Capacitor	10u	GENERIC C0603_10UF_16V_10%_X7R	0603
R1, R13, R20, R34, R35, R36, R37, R5, R9, R47, R48, R49, R44, R45, R46	15	±0.1% Metal Film 0.1W Resistor	49R9	PANASONIC ELECTRONIC COMPONENTS ERA-6AEB49R9V	0805
R39, R38	2	±1% Thick Film 0.125W Resistor	50m	GENERIC R0805_50m_1%_0.125W_200PPM	0805
R10, R11, R14, R15, R2, R3, R6, R7	8	±1% Thick Film 0.200W Resistor	33	GENERIC R0603_33R_1%_0.200W_200PPM	0603
R17, R18, R24, R25, R26, R30, R31, R40, R41, R42, R43	11	±0.1% Thin Film 0.063W Resistor	10k	GENERIC R0402_10K_0.1%_0.063W_100PPM	0402
R19, R50	2	±1% Thick Film 0.1W Resistor	39k2	GENERIC R0603_39.2K_1%_0.1W_100PPM	0603
R21	1	±0.1% Thin Film 0.15W Resistor	50k	GENERIC R0603_50K_0.1%_0.15W_25PPM	0603
R22, R51	2	±0.1% Thick Film 0.1W Resistor	12k	GENERIC R0402_12K_0.1%_0.063W_10PPM	0402
R23	1	±0.1% Thin Film 0.063W Resistor	9k	GENERIC R0402_9K_0.1%_0.063W_25PPM	0402
R32	1	±1% Thick Film 0.1W Resistor	0	GENERIC R0603_0R_1%_0.1W_100PPM	0603
R12, R16, R4, R8, R27, R28, R29	7	±0.1% Metal Film 0.063W Resistor	200	TT Electronics/Welwyn PCF0603R-200RBT1	0603
D1, D2, D3, D4, D5, D6, D7, D8, D9	9	DIODE SCHOTTKY 30V 5A SOD128	PMEG3050EP	NXP Semiconductors PMEG3050EP	SOD128
D10	1	LED RED DIFFUSED 0603 SMD	ASMT-RR45-AQ902	Broadcom Limited ASMT-RR45-AQ902	0603
D11, D12	2	LED YELLOW-GRN DIFFUSED 0603 SMD	ASMT-RF45-AN002	Broadcom Limited ASMT-RF45-AN002	0603

D13	1	DIODE SCHOTTKY RF SER 15V SOT-23	HSMS-2822-TR1G	Broadcom Limited HSMS-2822-TR1G	SOT-23
L1, L10, L11, L12, L13, L5, L6, L7, L8, L9, L15, L16, L17, L4	14	FERRITE BEAD 180 OHM 1806 1LN	BLM41PG181SN1	Murata Electronics North America BLM41PG181SN1	1806
Z2, L3	2	FIXED IND 8.2UH 5.05A 28.6 MOHM	7447797820	Würth Electronics Inc 7447797820	Nonstandard
T1, T2, T3, T4	4	1:1 Middle tap Transformer	WB2010-1-SMLB	Coilcraft WB2010-1-SMLB	Nonstandard
J1	1	Quad, 14-Bit, 80 MSPS/105 MSPS/125 MSPS Serial LVDS 1.8 V Analog-to-Digital Converter	AD9253BCPZ-125	Analog Devices Inc. AD9253BCPZ-125	LF CSP-48
J2	1	IC REG BUCK ADJ 3A SYNC 16HTSSOP	LM43603PWPT	Texas Instruments LM43603PWPT	16HTSSOP
J3	1	1.5-A Fast Ultra-Low-Dropout Linear Regulators	LP3875ES-3.3/NOPB	Texas Instruments LP3875ES-3.3/NOPB	TO-263
J4	1	IC REG LDO 1.8V 0.3A 8VSSOP	LP3982ILD-1.8/NOPB	Texas Instruments LP3982ILD-1.8/NOPB	WSOP 8
J5, U6	2	IC REG LDO ADJ 0.2A 10MSOP	LT3042EMSE#PBF	Linear Technology LT3042EMSE#PBF	MSOP-10
J7	1	SENSOR TEMPERATURE 1-WIRE 8UMAX	DS18B20U+	Maxim Integrated DS18B20U+	MSOP-8
J8	1	Low Phase Noise, Dual Output Buffer/Driver/ Logic Converter	LTC6957IMS-1#PBF	Linear Technology LTC6957IMS-1#PBF	12-Lead Plastic MSOP
J9	1	LVDS to LVPECL translator	SN65LVD101DGK	Texas Instruments SN65LVD101DGK	VSSOP-8
J10	1	3.3V / 5V ECL Differential Data and Clock D Flip-Flop	MC100EP52DT	On Semiconductor MC100EP52DT	TSSOP-8
CON1	1	Barrel jack input 3.5 A 16 VDC SMD	PJ-075DH-SMT-TR	CUI Inc. PJ-075DH-SMT-TR	
J1, J2, J3, J4, J17, J18	6	CONN SMA JACK R/A 50 OHM Horizontal	5-1814400-1	CONN SMA JACK 50 OHM Horizontal	
J15, J16	2	PIN HEADER 3 BROCHES	PRPC003SAAN-RC	Sullins Connector Solutions PRPC003SAAN-RC	
J15, J16	2	JUMPER	SPC02SYAN	Sullins Connector Solutions SPC02SYAN	
J10, J11, J12, J13, J5, J6, J7, J8, J9, J14	10	CONN SMA JACK R/A 50 OHM SMD Vertical	CON SMA001-SMD	Linx Technologies Inc. CON SMA001-SMD	
P1	1	CONN MINI-DIN 4POS FEMALE SHIELD 2A 12 VDC	MD-40SMK	CUI Inc. MD-40SMK	
P2, P3, P4, P5	4	12 Position Header Connector 0.100" (2.54mm) Through Hole, Right Angle Tin	PPTC062LJBN-RC	Sullins Connector Solutions PPTC062LJBN-RC	
Q1, Q2	2	CONN HEADER 100POS .8MM DUAL SMD	61083-104400LF	Amphenol FCI 61083-104400LF	
Q3, Q4	2	Switching Transistor NPN	MMBT4401LT1G	On Semiconductor MMBT4401LT1G	TO-236
HS1, HS2	2	HEAT SINK ALUM D2PAK TO-263	573300D00010G	AAVID THERMALLOY 573300D00010G	
X1	1	OSC XO 100.000MHZ LVCMOS SMD	ABLNO-100.000MHz	Abracon LLC ABLNO-100.000MHz	4-SMD, No Lead (DFN, LCC)

Not mounted components

R33	1	±1% Thick Film 0.1W Resistor	0	GENERIC R0603 0R 1% 0.1W 100PPM	0603
L14	1	FERRITE BEAD 180 OHM 1806 1LN	BLM41PG181SN1	Murata Electronics North America BLM41PG181SN1	1806