

Reference	Quantity	Value	Manufacturer Part#	Digi-Key_PN	Footprint
BUZZER1	1	3V 12mm	AI-1223-TWT-3V-2-R	668-1456-ND	Buzzer_Beeper:Buzzer_12x9.5RM7.6
Battery-Cell1	1	CR1220_Cell	BC501SM-TR	BC501SM-TRCT-ND	MiniNetPad:Battery_CR1220
CA2	1	4.7uf	C0805C475K3PACTU	399-5505-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CF21 CRST1 CA1 CV1 CN4 CN8 CN11 CN21 CN17 CN15 CNV28B1 CNOR1 CNMISO1 CSDI1 CSDO1 CSDS1 CU125 CF48 CFL1 CADS1 CF34 CMCP1					
CMCP47-0 CMCP47-1	24	0.1uf	C0805C104K3RACTU	399-1168-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CN22 CPCC1	2	22nf	C0805C223J3GAC7800	399-14577-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CNQ1 CNQ2	2	27pf	VJ0805A270GXXPW1BC	720-1713-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CNRD1	1	10nf 100V	C0805C103J1RACTU	399-7989-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CNRJ1	1	1nf 2KV	C4520X7R3D102K130KA	445-2386-1-ND	Capacitor_SMD:C_1806_4516Metric_Pad1.57x1.80mm_HandSolder
CNRX+1 CNRX-1	2	6.8nf 100V	C0805C682J1RACTU	399-9265-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CNTCT1	1	22nf 100V	08051C223JAT2A	478-3747-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CNW6 CNV28A1 CSD1 CSDET1 CATOD0 CATOD1	6	10uf TANT	F931D106MAA	478-8275-1-ND	Capacitor_Tantalum_SMD:CP_EIA-3216-18_Kemet-A_Pad1.58x1.35mn
CPCOS-CON1	1	330uf 6.3V	6SVPC330M	P16611CT-ND	Capacitor_SMD:CP_Elec_6.3x7.7
CPFIL1	1	470pf 50V	CC0805KRX7R9BB471	311-1124-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CPISO1	1	22nf 250V	GA343QR7GD222KW01L	490-3492-1-ND	Capacitor_SMD:C_1812_4532Metric_Pad1.30x3.40mm_HandSolder
CPLDA1	1	1uf 100V	12101C105JAT2A	478-11648-1-ND	Capacitor_SMD:C_1210_3225Metric_Pad1.42x2.65mm_HandSolder
CPLDB1	1	4.7uf 100V	UUX2A4R7MCL1GS	493-6282-1-ND	Capacitor_SMD:CP_Elec_8x10
CPOE1	1	0.1uf 100V	12061C104MAT2A	478-3786-1-ND	Capacitor_SMD:C_1206_3216Metric_Pad1.42x1.75mm_HandSolder
CPOUT1 CPOUT2 CPOUT3	3	100uf 10V	LMK325BJ107MM-T	587-1965-1-ND	Capacitor_SMD:C_1210_3225Metric_Pad1.42x2.65mm_HandSolder
CPVCC1	1	4.7uf 50V TANT	TR3C475K050C0500	718-1548-1-ND	Capacitor_Tantalum_SMD:CP_EIA-6032-15_Kemet-U_Pad2.25x2.35mr
CQ1 CQ2	2	20pf	C0805C200J4GAC7800	399-9987-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CTFF1	1	12pf 50V	C0805C120J1GACTU	399-9165-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CTI1	1	0.1uf 50V	C3216CH1H104J160AA	445-11580-1-ND	Capacitor_SMD:C_1210_3225Metric_Pad1.42x2.65mm_HandSolder
CTI2	1	10uf 50V	GRT31CR61H106KE01L	490-12456-1-ND	Capacitor_SMD:C_1210_3225Metric_Pad1.42x2.65mm_HandSolder
CTO2 CTO1	2	22uf	GRT31CR61E226KE01L	490-12450-1-ND	Capacitor_SMD:C_1210_3225Metric_Pad1.42x2.65mm_HandSolder
CTSW1	1	0.1uf 50V	C0805C104J5RACTU	399-1171-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CUFG1	1	4.7pf 1K	1206J1K04P70CCT	1608-1394-1-ND	Capacitor_SMD:C_1206_3216Metric_Pad1.42x1.75mm_HandSolder
CV2 CN20	2	10uf	TMK212BBJ106KG-T	587-2985-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
CVDD1 CCLK1 CPREADS1	3	1uf	C0805C105J4RACTU	399-8001-1-ND	Capacitor_SMD:C_0805_2012Metric_Pad1.15x1.40mm_HandSolder
D_JAC1 D_USB1 D_BAT1	3	MBR230LSFT1G	MBR230LSFT1G	MBR230LSFT1GOSCT-ND	Diode_SMD:D_SOD-123F
D_PBAS1	1	BAS516.135	BAS516,135	1727-6378-1-ND	Diode_SMD:D_SOD-523
D_PDS1040	1	PDS1040-13	PDS1040-13	PDS1040DICT-ND	Diode_SMD:D_Powermite2_AK
D_SMAJ58A1	1	SMAJ58A-13-F	SMAJ58A-13-F	SMAJ58A-13-FDICT-ND	Diode_SMD:D_SMA
FUSE1	1	MF-MSMF050-2	MF-MSMF050-2	MF-PSMF050X-2CT-ND	Fuse:Fuse_1812_4532Metric_Pad1.30x3.40mm_HandSolder
F_NBG1	1	42 ohm Ferrite	FBMJ2125HS420-T	587-1768-1-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
F_NBV1 F_PB1 F_VADS1 F_GADS1	4	120 ohm Ferrite	BLM21PG121SN1D	490-5986-1-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
F_VDD1	1	220 ohm Ferrite	MPZ2012S221AT000	445-1568-1-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
IND1	1	10uH	CBC2518T100M	587-1613-1-ND	MiniNetPad:pad1007-2518
JP_BAT1	1	Conn_02x03_Odd_Even			Connector_PinSocket_2.54mm:PinSocket_2x03_P2.54mm_Vertical

JP_EXT1	1	Conn_02x08_Odd_Even			Connector_PinHeader_2.54mm:PinHeader_2x08_P2.54mm_Vertical
JP_EXT2	1	Conn_02x10_Odd_Even			Connector_PinHeader_2.54mm:PinHeader_2x10_P2.54mm_Vertical
JP_I2C1	1	Conn_02x02_Odd_Even			Connector_PinSocket_2.54mm:PinSocket_2x02_P2.54mm_Vertical
JP_RA8875	1	Conn_01x15			Connector_PinSocket_2.54mm:PinSocket_1x15_P2.54mm_Vertical
JP_RST1 JP_PMONITOR1 JP_PCELL1	3	Conn_01x02			Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical
JP_SWD1	1	Conn_ARM_JTAG_SWD_10	3220-10-0100-00	1175-1627-ND	Connector_PinHeader_1.27mm:PinHeader_2x05_P1.27mm_Vertical
JP_TMP36	1	Conn_01x03			Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical
J_Micro_SD1	1	Micro_SD_Card_Det	5025700893	WM19093CT-ND	MiniNetPad:MicroSD
J_PWR_JACK1	1	Barrel_Jack	PJ-102AH	CP-102AH-ND	Connector_BarrelJack:BarrelJack_CUI_PJ-102AH_Horizontal
J_RJ45	1	Wuerth_7499211121A	7499211121A	732-1654-ND	MiniNetPad:RJ45_Wuerth_7499211121A_Horizontal
J_USB1	1	USB_B_Micro	1050170001	WM1399CT-ND	Connector_USB:USB_Micro-B_Molex-105017-0001
LT1	1	1.8mH	VLCF5024T-1R8N1R8-2	445-8742-1-ND	MiniNetPad:COIL_VLCF5024
L_DEF1	1	Blue	LTST-C171TBKT	160-1645-1-ND	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder
L_NEO_PIXEL1	1	WS2812B-5050	Sparkfun COM-13667	COM-13667-ND	LED_SMD:LED_WS2812B_PLCC4_5.0x5.0mm_P3.2mm
L_PWR1	1	Yellow	LTST-C171KSKT	160-1428-1-ND	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder
L_RX1 L_NSPPD1 L_PLED1 L_SD1	4	Green	LTST-C171KGKT	160-1426-1-ND	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder
L_TX1 L_NDUP1	2	Red	LED RED CLEAR SMD	160-1427-1-ND	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder
PA1133-coil1	1	PA1133NLT	PA1133NLT	553-2077-1-ND	MiniNetPad:PA1133
PS2911	1	PS2911-1-F3-AX	PS2911-1-F3-AX	559-1060-1-ND	MiniNetPad:PS2911
Q32	1	32.768KHz 12.5pf	ABS07-32.768KHZ-1-T	535-9808-1-ND	Crystal:Crystal_SMD_MicroCrystal_CC7V-T1A-2Pin_3.2x1.5mm
QN1	1	25.00 MHz 18pf	ABMM2-25.000MHZ-D1-T	535-13474-1-ND	Crystal:Crystal_SMD_EuroQuartz_MJ-4Pin_5.0x3.2mm
RBUZG1	1	10k	CRGCQ0805F10K	A129761CT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RBUZV1	1	22	CRCW080522R0FKEA	541-22.0CCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RID1 RFLCS1	2	100K	RCG0805100KFKEA	541-1825-1-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RID2 RLED1 RPWR1 RPLED1	4	330	RC0805FR-07330RL	311-330CRCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RNDMPR+1 RNDMPR-1 RNDMPT+1 RNDMPT-1	4	33 1%	CRGP0805F33R	A130459CT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RNEXR1	1	12.4K 1%	CRCW080512K4FKEAHP	541-12.4KTCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RNRDN1 RNRDP1 RNTXP1 RNTXN1	4	49.9 1%	ESR10EZPF49R9	RHM49.9AECT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RNTCT1	1	10 1%	CRCW080510R0FKEAHP	541-10.0TCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RPCLA1	1	124 0.1%	ERA-6AEB1240V	P124DACT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RPFIL1	1	10 OHM	CRCW080510R0FKEAHP	541-10.0TCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RPLIM1	1	470 0.1%	ERJ-PB6B4700V	P20556CT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RPOE1	1	60.4K 1%	RC0805FR-0760K4L	311-60.4KCRCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RPOE4	1	10 OHM 1%	CRCW080510R0FKEAHP	541-10.0TCT-ND	Resistor_SMD:R_1206_3216Metric_Pad1.42x1.75mm_HandSolder
RPPVC1	1	6.8K 1%	RC0805FR-076K8L	311-6.80KCRCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RPRSL1 RPOR1	2	10K 1%	RC0805FR-0710KL	311-10.0KCRCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RPSEN1	1	0.1 OHM 1%	RUT3216FR100CS	1276-6173-1-ND	Resistor_SMD:R_1206_3216Metric_Pad1.42x1.75mm_HandSolder
RRST1 RN6 RN1 RN2 RN3 RN4 RN5 RNDUP1					
RNSPD1 RNAUTO1 RNRES1 RNRESET1 RNCS1					
RNINT1 RSD1 RSDCS1 RSDD2 RCLK1 RLCS1					
RLRES1 RSL1 RSDA1 RSDD1 RADDR1 RADALR1					
RPH1 RMCP23A0 RGP7 RGP6 RMCP47-0					
RMCP47-1	31	10K	CRGCQ0805F10K	A129761CT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder

RSWCLK1 RSDLED1	2	1K	RC0805FR-071KL	311-1.00KCRCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RSWDRST1	1	39 1%	CRGCQ0805F39R	A129732CT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RTBUCK1	1	115K 1%	RC0805FR-07115KL	311-115KCRCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RTBUCK2	1	25.5K 1%	RC0805FR-0725K5L	311-25.5KCRCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RTR1 RRX1 RTX1 RNLSPEED1 RNLDUP1					
RNLNK1 RNLACT1	7	820	RC0805FR-07820RL	311-820CRCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RTREN1 RPOE2	2	100K 1%	RCG0805100KFKEA	541-1825-1-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RUFG1 RNQ1	2	1Meg	ERJ-6ENF1004V	P1.00MCCT-ND	Resistor_SMD:R_0805_2012Metric_Pad1.15x1.40mm_HandSolder
RVBUZ2	1	200 ohm TRIMMER	3386W-1-201LF	3386W-201LF-ND	Potentiometer_THT:Potentiometer_Bourns_3386C_Horizontal
SW_PWR1	1	SW_SPDT	TS01AQE	CKC5121-ND	MiniNetPad:SPDT-612-500ASSP1M2QE
SW_RESET1	1	SW_B3F-3100	B3F-3100	SW1049-ND	MiniNetPad:Switch_Tactile_B3F
U_2N7002-LED1 U_2N7002-BUZ1	2	2N7002PW.115	2N7002PW,115	1727-4793-1-ND	Package_TO_SOT_SMD:SOT-323_SC-70_Handsoldering
U_74LVC1G1-NCS1 U_74LVC1G1-LSCK1					
U_74LVC1G1-LMOSI1 U_74LVC1G1-TFT1					
U_74LVC1G1-LMISO1	5	SN74LVC1G125DBVR	SN74LVC1G125DBVR	296-11603-1-ND	Package_TO_SOT_SMD:SOT-23-5_HandSoldering
U_74LVC2G7NRES1	1	SN74LVC2G07DBVR	SN74LVC2G07DBVR	296-13494-1-ND	Package_TO_SOT_SMD:SOT-23-6_Handsoldering
U_ADS1115	1	ADS1115IDGS	ADS1115IDGST	296-24934-1-ND	Package_SO:TSSOP-10_3x3mm_P0.5mm
U_ATSAM21G18A1	1	ATSAMD21G18A-AUT	ATSAMD21G18A-AUT	ATSAMD21G18A-AUTCT- ND	Package_QFP:TQFP-48_7x7mm_P0.5mm
U_DS3231	1	DS3231M	DS3231SN#T&R	DS3231SN#T&RCT-ND	Package_SO:SOIC-16W_7.5x10.3mm_P1.27mm
U_FLASH1	1	GD25Q16C	GD25Q16CSIGR	1970-1024-1-ND	Package_SO:SO-8_5.3x6.2mm_P1.27mm
U_LTC4267-1	1	LTC4267IGN-1#PBF	LTC4267IGN-1#PBF	LTC4267IGN-1#PBF-ND	Package_SO:TSSOP-16_4.4x5mm_P0.65mm
U_MCP23008	1	MCP23008	MCP23008T-E/SS	MCP23008T-E/SSCT-ND	Package_SO:SSOP-20_5.3x7.2mm_P0.65mm
U_MCP4725-0 U_MCP4725-1	2	MCP4725A0T-E_CH	MCP4725A0T-E/CH	MCP4725A0T-E/CHCT-ND	Package_TO_SOT_SMD:SOT-23-6_Handsoldering
U_PRTR5	1	PRTR5V0U2X	PRTR5V0U2X,215	1727-3884-1-ND	Package_TO_SOT_SMD:SOT-143
U_RT6222	1	RT6222C-1	RT6222CHGJ6F	1028-1392-1-ND	Package_TO_SOT_SMD:SOT-23-6_Handsoldering
U_Si3440	1	Si3440	SI3440DV-T1-E3	SI3440DV-T1-E3CT-ND	Package_SO:TSOP-6_1.65x3.05mm_P0.95mm
U_TLV431	1	TLV431	ZTLV431AFTA	ZTLV431AFCT-ND	Package_TO_SOT_SMD:SOT-23_Handsoldering
U_W5500	1	W5500	W5500	1278-1021-ND	Package_QFP:TQFP-48_7x7mm_P0.5mm
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RA8875 DRIVER BOARD FOR 40P TFT	1	Digi# 1528-1861-ND	Adafruit# 1590		
TFT DISPLAY - 800X480 WITH TOUCH	1	Digi# 1528-1870-ND	Adafruit# 2354		
TMP36 SENSOR ANALOG -40C-125C TO92-3	1	Digi# TMP36GT9Z-ND	Adafruit# 165		
PHOTO CELL (CDS PHOTORESISTOR)	1	Digi# 1528-2141-ND	Adafruit# 161		
12 volt 2A power supply for MiniNetPad	1	Plug type: 5.5mm OD / 2.1mm ID			
SOLDER PASTE LOW TEMP 10CC W/TIP	1	Digi# SMDLTLP10-ND	MP# SMDLTLP10		
DESOLDER BRAID ROSIN 0.03" 5'	1	Digi# 473-1060-ND	MP# 423		
#4-40 x 0.135" Threaded Heat-Set Inserts for printed case.	10 minimum	Amazon			