PCB popu	ulating refe	erence		
mponent	value	Discription	Link	Comment
	10k	RES SMD 10K OHM 1% 1/8W 0805	Digikey Part Number: 311-10.0KCRCT-ND	
	226k	RES SMD 226K OHM 1% 1/8W 0805	Digikey Part Number: 311-226KCRCT-ND	
	249	RES SMD 249 OHM 1% 1/4W 0805	Digikey Part Number: 311-249CRCT-ND	
	1k	RES SMD 1K OHM 1% 1/8W 0805	Digikey Part Number: 311-1.00KCRCT-ND	
	10k	RES SMD 10K OHM 1% 1/8W 0805	Digikey Part Number: 311-10.0KCRCT-ND	
	100k	RES SMD 100K OHM 1% 1/8W 0805	Digikey Part Number: 311-100KCRCT-ND	
	100k	RES SMD 100K OHM 1% 1/8W 0805	Digikey Part Number: 311-100KCRCT-ND	
	1k	RES SMD 1K OHM 1% 1/8W 0805	Digikey Part Number: 311-1.00KCRCT-ND	
	Short	RES SMD 0 OHM JUMPER 1/8W 0805	Digikey Part Number: 311-0.0ARCT-ND	SHORT
	NS			
	49.9	RES SMD 49.9 OHM 1% 1/8W 0805	Digikey Part Number: 311-49.9CRCT-ND	
	49.9	RES SMD 49.9 OHM 1% 1/8W 0805	Digikey Part Number: 311-49.9CRCT-ND	
	49.9	RES SMD 49.9 OHM 1% 1/8W 0805	Digikey Part Number: 311-49.9CRCT-ND	
	NS			
	1k	RES SMD 1K OHM 1% 1/8W 0805	Digikey Part Number: 311-1.00KCRCT-ND	
	10k	RES SMD 10K OHM 1% 1/8W 0805	Digikey Part Number: 311-10.0KCRCT-ND	
	Short	RES SMD 0 OHM JUMPER 1/8W 0805	Digikey Part Number: 311-0.0ARCT-ND	Short
	NS			
	NS			NS
	10k	RES SMD 10K OHM 1% 1/8W 0805	Digikey Part Number: 311-10.0KCRCT-ND	
	24.9k			
	NS			NS
	500ma diode	DIODE SCHOTTKY 40V 500MA SOD123	Digikey Part Number: MBR0540CT-ND	Has direction
	500ma diode	DIODE SCHOTTKY 40V 500MA SOD123	Digikey Part Number: MBR0540CT-ND	Has direction
	47uH	FIXED IND 47UH 170MA 1.3 OHM SMD	Digikey Part Number: 490-4063-1-ND	
	2.5k Ferrite Bead	FERRITE BEAD 2.5 KOHM 0805 1LN	Digikey Part Number: 587-1919-1-ND	
	22pF	CAP CER 22PF 50V NP0 0805	Digikey Part Number: 399-1113-1-ND	
	0.47uF	CAP CER 0.47UF 50V X7R 0805	Digikey Part Number: 399-8100-1-ND	
	1uF	CAP CER 1UF 50V Y5V 0805	Digikey Part Number: 587-1308-1-ND	
	10uF	CAP CER 10UF 6.3V X5R 0805	Digikey Part Number: 490-1718-1-ND	
	0.1uF	CAP CER 0.1UF 50V X7R 0805	Digikey Part Number: 399-1170-1-ND	
	20nF	CAP CER 20nF 50V X7R 0805		
	10.0pF	CAP CER 10PF 50V C0G/NP0 0805		
	10 nF	CAP CER 10000PF 50V X7R 0805	Digikey Part Number: 311-1136-1-ND	
	10 nF	CAP CER 10000PF 50V X7R 0806	Digikey Part Number: 311-1136-1-ND	
	10 nF	CAP CER 10000PF 50V X7R 0807	Digikey Part Number: 311-1136-1-ND	
	10 nF	CAP CER 10000PF 50V X7R 0808	Digikey Part Number: 311-1136-1-ND	
	Short	RES SMD 0 OHM JUMPER 1/8W 0805	Digikey Part Number: 311-0.0ARCT-ND	SHORT
	0.1uF	CAP CER 0.1UF 50V X7R 0805	Digikey Part Number: 399-1170-1-ND	
	10uF	CAP CER 10UF 6.3V X5R 0805	Digikey Part Number: 490-1718-1-ND	
	0.1uF	CAP CER 0.1UF 50V X7R 0805	Digikey Part Number: 399-1170-1-ND	
	1uF	CAP CER 1UF 50V Y5V 0805	Digikey Part Number: 587-1308-1-ND	
	LT3461	3MHz Step-Up DC/DC Converters	http://www.linear.com/product/LT3461A	Has direction
	LT1807IS8#PBF	325MHz, Dual, Rail-to-Rail Input and Output, Precision Op Amps	http://www.linear.com/product/LT1807	Has direction
	NS			NS
	3.3V regulator	IC REG LINEAR 3.3V 300MA SOT23-3	Digikey part number: AP2210N-3.3TRG1DICT-ND	Has direction
	SD card socket	SMT SMD Cell Phone TF Micro SD Memory Card Slot Holder Sockets	Amazon: uxcell 6 Pcs SMT SMD	
	Non-Inverting Buffer	High Speed CMOS Logic Hex Non-Inverting Buffers	Mouser Part Number: 595-CD74HC4050M96,	Has direction
	SiPM	SiPM MicroFC-60035-SMT	SENSL	Has direction
	Reset button	SWITCH TACTILE SPST-NO 0.02A 15V	Digikey part number: P12215S-ND	
) header	2x3 header +2x1	header for mounting SD card PCB. 2x3 + 1x2		
header	15x1 header	2x headers for mounting Arduino, should come with Arduino		
no_Nano	Arduino Nano	16 MHz CH340/ATmega328P Arduino Nano		
	BNC header	CONN BNC JACK R/A 50 OHM PCB	Digikey part number: WM5514-ND	
) header	4 pin header	CONN FEMALE 4POS .100" R/A TIN	Digikey part number: S5440-ND	Bottom
	LED light	Any color, 5mm	https://www.amazon.com	
n Header	6-pin Header	SOCKET 7 MM SOLDER TAIL DOUBLE	Digikey Part Number: 1212-1229-ND	
nm jack	3.5mm jack	CONN JACK 4COND 3.5MM SMD R/A	Digikey Part Number: CP-43515RSSJCT-ND	
р	TMP36	Temperature Sensors TMP36 Precision Linear Analog Output		
PCB 6-Pin	6-pin Pins	WM17457-ND	WM17457-ND	