ITEM	PR9013 BOM	NOTES	Do not place listed as yellow													
		NOTES	as yellow													
	1.20.15															
PREPARED BY				_										_		+
NOTES	Prototype															
	zach@thepublicrad .io /															
CONTACT	spencer@thepublic rad.io															
CONTINUI	100.10															
Hem	Qty Part	Value	Device	Package	Description	Mfn Part #	Changed From 9011									
- India	1.00	1444	DUINO	POWER-SOP8	1.4W MONO											
	1 AMP	TPA2005D1DGNR	TPA2005D1DGN	POWER-SOP8	CLASS-D A	TPA2005D1DGNR										
	1 01	220uF	CAP POLC	Nichicon UDSeries	s Capacitor Polarizes	UUD1C221MCL10	Y									
	1 C2		0.1 0.10		0	DAID	v									
					CAP CER 47PF	GRM1555C1H470 GA01D										
	C3		CAP0402	0402	50V 2% NP0 0402	GA01D	Y									
	2 C4,C5	22pf	CAP0402	0402	CAP CER 22PF 50V 5% NP0 0402	CL05C220JB5NNI C	1 Y									
					CAP CER 0.022UF	CL05B223KO5NN										
	2 C7, C10	22nF	CAP0402	0402	50V 5% NP0 0402 CAP CER 0.022UF 16V 10% X7R 0400 CAP CER 0.1UF 16V 10% X7R 0400	2 NC	Y									
	4 C12, C19, C8, C11	.1uf	CAP0402	0402	16V 10% X7R 040	2 NC	Y									
			CAP0402	0402	16V 10% X7R 0400 CAP CER 0.033UF 16V 10% X7R 0400	CL05B333KO5NN										
	2 C13, C16	.033uf	CAP0402	0402	CAD CED 1011E	2 NC										
					6.3V 20% X5R	CL10A106MQ8NN NC										
		10uf	CAP0603	0603	0603	NC I METOER HOSE	Y									+
	2 C9, C17	1uf	CAP0402	0402	0603 CAP CER 1UF 10\ 10% X5R 0402	F LIME 100BU 105KV-	Y									
			CAP0402	0402	CAP CER 100PF 509	V CL05C101JB5NN	١,									
	1 C20	100pf	CAPU4U2	0402	Two small signal	U	1	-		-				-		+
					10% X5R 0402  CAP CER 100PF 50/5% NP0 0402  Two small signal silicon diodes connected anode to cathode.											
	1 D1		BAV99	SOT23-3	connected anode to cathode.	BAV99	N									
					Inductors/Zero											
	1 FB1		Inductors/Zero Ohm Resist	0402	Inductors/Zero Ohm Resist FERRITE CHIP 220 OHM 0805	ERJ-2GE0R00X	Y									+
	2 FB2,FB3		Inductors	0805	220 OHM 0805	BLM21PG221SN1	Y									
			AO3435	AO3435	1	AO3435	N									
				20-UFQFN												
	1 FMIC	SI4702	SI4702		CMOS Receiver		N									
		AVR_SPI_PRG_6	AVR SPI PRG 6N	N												
	1 ISP	AVR_SPI_PRG_6	s	2X3-NS	AVR ISP 6 Pin	M20-9980346	N									
DNP	1 DNP	M3_SCREW_POS	M3_SCREW_POS	M3_SCREW_POS	5	DNP										
			BATT CLIP BK-	BK-	AVR ISP 6 Pin											
	4 JP5.JP6	RK-92 MPD AA	92 MPD_AA_BAT	92 MPD_AA_BAT		BK-92	N									
	4 01 0,01 0	DIV-DE_IIII D_FOC	1_02#	I_OLII	FIXED IND 180NH	DIVOL										
	1 L1		INDUCTOR0805	0805	400MA 640 MOHN	AISC-0805-R18J-1	Y									
					FERRITE CHIP READ 2200 OHM	MM71005A222FT	0									
	2 L2,L3	2.2k@100MHz	INDUCTOR0402	0402	0402	00	Y									
	1 LED1		LEDSML0603	SML0603	FIXED IND 180NH 400MA 640 MOHN FERRITE CHIP BEAD 2200 OHM 0402 LED	LTST-C190KFKT	Y									
	1 MCU	Tinu85-20-SMT	ATTINY45TINY85-	S008-EIAJ N RV170SF_TAIWAN A_POT_SW	IC MCU 8BIT 4KB FLASH 8SOIC	ATTINVAS, 20SLID	v									
	1 11100	IIIIyoo zo oiii i	NA POT SW	OOG-LIPE	N .	7(11)(140-2000)(										
	1 R1	DIMESON TANKS	RVT70SF_TAIWAN	N RV170SF_TAIWAN	N	RV170SF-43-20F- A10K										
	1 1 1 1	RV1/USF_TAIWA	A_PUI_SW	A_PUI_SW	ResistorRES SMD	ATUK	IN									
	3 R2,R4,R5		RESISTOR0402- RES		330 OHM 5%	ERJ-2GEJ331X	l									
		330	RESISTOR0402- RES	0402	DEC CMD 40V OUR	ERJ-2GEJ331X	1									
	2 R6,R12	10K	RES	0402	RES SMD 10K OHM 5% 1/10W 0402	ERJ-2GEJ103X	Y									
			DESISTORO402		RES SMD 4.7K OHM 1% 1/10W 0402											
	3 R7,R8,R9			0402	0402	ERJ-2RKF4701X	Y									
	1 R10		RESISTOR0805- RES	0005	Zoro Ohm Donist	ERJ-6GEY0R00V										
	1 1 10			0000	RES SMD 40 2K	LIW-OGE TOROUV		_		_						_
	2 R11, R13		RESISTOR0402-	0402	RES SMD 40.2K OHM 1% 1/10W 0402	ERJ-2RKF4022X	L,									
				0402	0402	ERJ-2RKF4022X	1	-	-	-				+		
	1 R14	1K	RESISTOR0402- RES	0402	1% 1/10W 0402	ERJ-2RKF1001X	Y									
					SWITCH TACTILE	DTS845SM42CMT										
	1 SW1	SPST_TACT-Gull	SPST_TACT-Gull	Gull Wing	RES SMD 1K OHM 1% 1/10W 0402 SWITCH TACTILE SPST-NO 0.05A 12V	R92 LFS	N									
			SPKR CE324 DAYTON	CE32A DAYTON												
DNP	1 U\$5	CE32A_DAYTON_	SPKR DATTON_	SPKR DATION_	CRYSTAL 32.768KHZ 12.5PF SMD JST Speaker A Connect	DNP										
				4 PO L E E0m	CRYSTAL	ADDOE										
	1 11	32.768kHz	CRYSTAL32-SMD	pitch p.summ	SMD 12.5PF	32.768KHZ-T	Y									
	4 107 001"			107 PH 0 01/2 2	JST Speaker	S2B-PH-SM4- TB(LF)(SN)										
	1 JST_CONN		-	JS1-PH-2-SMT-RA	Connect	IB(LF)(SN)	N	-		-				+		
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