

IDBLUE R8.UHF Bill Of Materials

ITEM	QUAN	REF DES	VALUE	DESCRIPTION	MANF	MANF PART NUM
1	3	C1,C2,C55	0.4pF	CAP, 0402, .1%, 50V, CERAMIC NPO	Vishay	541-80.6LCT-ND
2	1	C3	2.0pF	CAP CER 2.0PF 50V COG 0402	Kemet	C0603C475K9PACTU
3	3	C4,C39,C45	10uF	CAP, 0603, 20%,6.3V, Ceramic, X5R	Murata	GRM1555C1H821JA01D
4	14	C5,C8,C28,C47,C61,C68,C73,C74,C78,C79,C82,C88,C89,C94	0.01uF	CAP, 0402, 10%,25V, Ceramic, X7R	Panasonic	ECJ-0EB1E103K
5	3	C6,C9,C21	0.027uF	CAP, 0402, 10%,10V, Ceramic, X5R	Panasonic	ERJ-3GEYJ751V
6	3	C7,C10,C60	1000pF	CAP, 0402, 10%,25V, Ceramic, X7R	Kemet	C0402C102K3RACTU
7	5	C11,C13,C14,C16,C49	39pF	CAP, 0402, 5%,50V, Ceramic, NPO	Optek	OVSARGB3R8
8	2	C12,C15	4pF	CAP, 0402, .25%,25V, Ceramic, NPO	Panasonic	ERJ-3GEYJ751V
9	3	C17,C18,C20	820pF	CAP, 0402, 5%,50V, Ceramic, NPO	Murata	GRM1555C1H821JA01D
10	1	C19	1.8nF	CAP, 0402, 10%,25V, Ceramic, X7R	Kemet	C0402C102K3RACTU
11	1	C22	270pF	CAP, 0402, 5%,50V, Ceramic, NPO	Panasonic	ECJ-0EB1E103K
12	5	C23,C34,C36,C58,C59	22pF	CAP, 0402, 5%, 50V, Ceramic, NPO	Kemet	C0402C220J5GACTU
13	2	C24,C26	1.0pF	CAP, 0402, .25%,25V, Ceramic, NPO	Kemet	C0603C475K9PACTU
14	1	C25	3.3pF	CAP, 0402, .25%,25V, Ceramic, NPO	Panasonic	ERJ-3GEYJ751V
15	3	C27,C43,C46	1uF	CAP, 0402, 10%,16V, Ceramic, X5R	Kemet	C0603C475K9PACTU
16	21	C29,C30,C40,C42,C44,C50,C51,C52,C53,C56,C57,C65,C66,C69,C71,C72,C75,C76,C80,C81,C91	0.1uF	CAP, 0402, 10%,16V, Ceramic, X7R	Taiyo Yuden	EMK105B7104KV-F
17	13	C31,C33,C37,C38,C48,C95,C96,C97,C98,C99,C100,C101,C102	100pF	CAP, 0402, 5%,50V, Ceramic, NPO	Murata	GRM1555C1H821JA01D
18	2	C32,C35	0.22uF	CAP, 0402, 10%,25V, Ceramic, X7R	TDK Corp	C1005X5R0J224K
19	1	C41	560pF	CAP, 0402, 5%,50V, Ceramic, NPO	Murata	GRM1555C1H331JA01D
20	4	C54,C70,C87,C90	2.2uF	CAP CERAMIC 2.2UF 6.3V X5R 0603	Kemet	C0603C225K9PACTU
21	1	C67	4.7uF	CAP CER 4.7UF 6.3V X5R 0603	Kemet	C0603C475K9PACTU
22	2	C77,C83	15uF, 10V	CAP TANTALUM 15UF 10V 20% SMD	Kemet	B45196H2156M109
23	1	C84	1000pF,2000V	CAP CER 1000PF 2000V X7R 1206	Johanson	202R18W102KV4E
24	4	C85,C86,C92,C93	15pF	CAP CER 15PF 50V 5% COG 0402	Murata	GRM1555C1H150JZ01D
25	1	C103	470pF	CAP 470PF 50V CERAMIC X7R 0402	Kemet	C0402C471K5RACTU
26	1	D1	HSMS-282P	Diode, Bridge Quad Schottky, RF	Avago	HSMS-282P-BLKG
27	4	D2,D5,D7,D8	BAT54WT	DIODE SCHOTTKY 30V 200MA SOT-323	MCC	BAT54WT-TP
28	2	D3,D4	OVSARGB3R8	LED RED/GRN/BLUE SMD PLCC4	TT/Optek	OVSARGB3R8
29	1	D9	LM4040	IC VOLT REF PREC MICROPWR SC70-5	TI	LM4040C30IDCKR
30	1	FL1	0915LP15B026	Low Pass Filter, 915MHz	Johanson	202R18W102KV4E
32	1	J3	05", R/A, TH	CONN HEADER .05" 10PS DL PCB R/A	Sullins	GRPB052MWCN-RC
34	1	J5	Mini USB B RA	CONN MINI USB RCPT RA TYPE B SMD	TYCO	1734035-2
35	1	LS1	Buzzer	Buzzer	Bosan Hitech	BST-5523S
37	3	L3,L8,L9	6.8nH	Inductor, 0402, CC#0402CS-6N8XGLW	Coilcraft	0402CS-6N8XGLW
38	1	L4	47nH	Inductor, 0402, CC#0402CS-47NXJLW	Coilcraft	0402CS-47NXJLW
39	1	L5	27nH	Inductor, 0402, CC#0402CS-27NXGLW	Coilcraft	0402CS-27NXGLW
40	1	L6	3.9nH	Inductor, 0402, CC#0402CS-3N9XGLW	Coilcraft	0402CS-3N9XGLW
41	1	L7	2.7nH	Inductor, 0402, CC#0402CS-2N7XGLW	Coilcraft	0402CS-2N7XGLW
42	1	Q1	MMST3904	TRANSISTOR NPN 40V 200MA SOT323	MCC	MMST3904-TP
43	1	Q2	RUM003N02	MOSFET SS 20V 0.3A VMT3	Rohm	RUM003N02T2L
44	3	Q3,Q4,Q5	RTM002P02	MOSFET P-CH 20V 200MA VMT3	Rohm	RTM002P02T2L
46	11	R4,R5,R14,R15,R16,R17,R24,R25,R26,R28,R92	10.0K	RES, 0402, 1/16W, 1%, Thick Film	Panasonic	ERJ-2RKF1002X
47	4	R6,R9,R10,R41	51	RES, 0402, 1/16W, 5%, Thick Film	Yageo	RC0402JR-0751RL
48	7	R7,R8,R11,R71,R78,R80,R90	1K	RES, 0402, 1/16W, 5%, Thick Film	Panasonic	ERJ-2GEJ102X
49	1	R12	910	RES, 0402, 1/16W, 5%, Thick Film	Yageo	RC0402JR-07910RL
50	1	R13	510	RES, 0402, 1/16W, 5%, Thick Film	Yageo	RC0402JR-07510RL
51	2	R18,R22	47.5ohm	RES, 0402, 1/16W, 1%, Thick Film	Panasonic	ERJ-2RKF47R5X
52	4	R19,R20,R23,R73	1.5K	RES 1.5K OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ152
53	1	R21	2.21K	RES, 0402, 1/16W, 1%, Thick Film	Yageo	RC0402FR-072K21L

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54	5	R27,R36,R37,R38,R39	100	RES, 0402, 1/16W, 5%, Thick Film	Yageo	RC0402JR-07100RL
55	15	R42,R43,R44,R45,R46,R47,R48,R49,R50,R53,R54,R55,R68,R72,R89	4.7K	RES 4.7K OHM 1/16W 5% 0402 SMD	Vishay/Dale	CRCW04024K70JNED
56	1	R51	150K	RES 150K OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ154
57	1	R52	22K	RES 22K OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ223
58	1	R56	150	RES 150 OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ151
59	2	R57,R70	100K	RES 100K OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ104
60	7	R58,R60,R61,R64,R65,R67,R91	200	RES 200 OHM 1/16W 5% 0402 SMD	Vishay/Dale	CRCW0402200RJNED
61	4	R59,R63,R66,R84	1M	RES 1.0M OHM 1/16W 5% 0402 SMD	Vishay/Dale	CRCW04021M00JNED
62	1	R62	200K	RES 200K OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ204
63	2	R69,R77	33K	RES 33K OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ333
64	4	R74,R75,R87,R88	22	RES 22 OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ220
65	2	R76,R81	49.9K	RES 49.9K OHM 1/16W 1% 0402 SMD	Rohm	MCR01MZPF4992
66	1	R79	15K	RES 15K OHM 1/16W 5% 0402 SMD	Rohm	MCR01MZPJ153
67	1	R82	45.3K	RES 45.3K OHM 1/16W 1% 0402 SMD	Rohm	MCR01MZPF4532
68	2	R83,R85	30.1K	RES 30.1K OHM 1/16W 1% 0402 SMD	Rohm	MCR01MZPF3012
69	1	SC1	97-2004	Shield Can, Laird/BMI#97-2004	Laird	97-2004
70	2	SW1,SW2	TL3302AF180QG	SWITCH TACT 180GF H=4.3MM SMT	E-Switch	TL3302AF180QG
72	1	U1	AT91SAM7S256	IC ARM7 MCU 32BIT 256K 64LQFP	Atmel	AT91SAM7S256C-AU
73	1	U2	TLV70030DCKT	IC REG LDO 3.0V 150MA SC70-5	TI	TLV70030DCKT
74	1	U3	ADF4360-3BCP	Synth/VCO, 1830MHz, CSP-24	Analog Devices	ADF4360-3BCPZ
75	1	U4	RF2172	RF PWR AMP, 250mW, QFN-16, RFMD#RF2172	RF Micro Devices	RF2172
76	1	U5	LT6200CS6	Op Amp, R-R I/O 165MHz	Linear	LT6200CS6
77	1	U6	LMV7219	IC, Comparator, Hi Speed, SC70-6	National	LMV7291MG
78	1	U7	LMV841MG	OP AMP, GP, SC70-5	National	LMV841MG
79	1	U8	LTC2630CSC6-LZ8	DAC, RR, 10 BIT, SC70-6	Linear	LTC2630CSC6-LZ8
80	1	U9	NC7SZ14P5X	GATE, Schmidt Inv, Tinylogic, SC70-5	Fairchild	NC7SZ14P5X
81	1	U10	TPS73633DBVT	IC REG LDO 3.3V 400MA SOT-23-5	TI	TPS73633DBVT
82	1	U11	RN-41-APL	Bluetooth Module	Roving Networks	RN-41-APL
83	1	U12	M41T60	IC RTC SERIAL W/ALARM 16QFN	STMicro	M41T60
84	1	U13	AT24C128	Two-wire Serial EEPROM 128K (16,384 x 8)	Atmel	AT24C128
85	1	U14	NC7SZ32P5X	IC GATE OR UHS SGL 2INPUT SC70-5	Fairchild	NC7SZ32P5X
86	1	U15	TLV3491	IC COMPARTOR P-P NANOPWR SOT23-5	TI	TLV3491
87	1	U16	USBLC6-2	IC ESD PROTECTION FOR HS SOT-666	STMicro	USBLC6-2
88	1	U17	BQ24031	IC CHARGE MGMT BQTINY-III 20VQFN	TI	BQ24031
89	1	U18	TPS71202	IC LDO REG DUAL ADJ/ADJ 10-SON	TI	TPS71202
90	1	Y1	NT3225SA-13MHZ	TCXO, 13.000 MHz, 2.5 PPM	NDK	NT3225SA-13MHZ
91	1	Y2	20MHz	CRYSTAL 20.0000 MHZ 18PF SMD	Citizen	CS10-20.000MABJ-UT
92	1	Y3	32.768Khz	CRYSTAL 32.768 KHZ 12.5PF SMD	Citizen	CS10-13.560MABJ-UT