



Project: JUICE/RIME

MATERIAL BUILD RECORD

Department of
Physics & Astronomy

NVARC FOX FINDER

Board: 102-73156.5

Schematic: 102-73156.5

Idx #	Pg #	Comp S/N as needed	Component MIT	Part Type	Ref Des	Part Value	Flight Part Number	Kit by	Value Ver	Insp by	Lead Form	Insp by	Tinned by	Insp by	Appl by	Insp by
6	1	2.3D Top	2.278 0.495	CER CAP X7R	C11	0.018UF	RDE5C1H183J1P1H03B									
6	1	2.5D Top	2.007 0.180	CER CAP X7R	C12	0.018UF	RDE5C1H183J1P1H03B									
7	1	2.2B Top	2.347 1.260	CER CAP X7R	C3	0.01UF	RDE5C1H103J1P1H03B									
7	1	2.3B Top	1.902 0.835	CER CAP X7R	C4	0.01UF	RDE5C1H103J1P1H03B									
7	1	2.5B Top	2.232 0.290	CER CAP X7R	C5	0.01UF	RDE5C1H103J1P1H03B									
7	1	2.1C Top	2.752 1.590	CER CAP X7R	C6	0.01UF	RDE5C1H103J1P1H03B									
7	1	2.4E Top	0.735 1.350	CER CAP X7R	C9	0.01UF	RDE5C1H103J1P1H03B									
8	1	2.8B Top	0.887 0.460	CER CAP X7R	C13	0.1UF	320C104K5R5TA									
8	1	2.8E Top	2.242 1.840	CER CAP X7R	C15	0.1UF	320C104K5R5TA									
8	1	2.3E Top	0.660 0.845	CER CAP X7R	C72	0.1UF	320C104K5R5TA									
9	1	2.1B Top	2.792 1.170	CER CAP X7R	C2	1000PF	SR201A102JAR									
9	1	2.6C Top	1.152 1.140	CER CAP X7R	C8	1000PF	SR201A102JAR									
10	1	2.4E Top	0.770 1.522	CAP ALUMINUM	C10	10UF/35V	ESK106M035AC3AA									
10	1	2.6E Top	1.115 0.305	CAP ALUMINUM	C7	10UF/35V	ESK106M035AC3AA									
10	1	2.3E Top	0.665 0.635	CAP ALUMINUM	C73	10UF/35V	ESK106M035AC3AA									
11	1	2.7D Top	1.357 2.010	CER CAP X7R	C16	10UF	FG24X7R1A685KRT06									
11	1	2.8D Top	2.882 2.010	CER CAP X7R	C64	10UF	FG24X7R1A685KRT06									
12	1	2.2B Top	1.652 1.070	CAP VARIABLE	C1	2-6PF	JR060									



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13	2	2.1D Top	1.087 1.330	N/A Not Applicable	C6A	N/A 0.01UF	Do NOT Install									
13	2	2.3C Top	2.500 0.420	N/A Not Applicable	C6B	N/A 0.01UF	Do NOT Install									
14	2	2.7E Top	1.937 1.900	N/A Not Applicable	C65	N/A	Do NOT Install									
15	2	2.2B Top	1.882 1.260	SCHOTTKY DIODE	D2	1N34/BAT46	BAT46									
15	2	2.3B Top	1.777 0.895	SCHOTTKY DIODE	D3	1N34/BAT46	BAT46									
16	2	2.3E Top	0.455 0.645	DIODE	D10	1N4001	1N4001-E3/54									
17	2	2.6E Top	1.497 1.460	DIODE	D1	1N5222B/2.5V	1N5222B									
18	2	2.5E Top	0.600 0.485	LED	D4	LTL-4223	T1 3/4									
19	2	2.9A Top	6.200 5.400	ENCLOSURE	ENCL1	1599BBAT	1599BBKBAT									
21	2	2.6D Top	2.877 0.820	Pad	GND	N/A	VP: Not a Physical Part									
22	2	2.1B Top	3.227 0.990	CONN BNC R/A	J1	5227161-7	5227161-7									
23	2	2.1E Top	0.230 1.657	N/A Not Applicable	J3	N/A	Do NOT Install									
24	2	2.9D Top	3.517 1.535	CONN JACK STEREO	J2	SJ-3524	SJ-3524-SMT-TR									
30	2	2.7D Top	1.397 1.460	MTL FLM RES	R63	1.21K	RNC50K1E21FMB144									
31	2	2.6B Top	1.292 0.275	MTL FLM RES	R7	1.6M	CF18JA1M60									
32	2	2.4A Top	2.502 0.825	POTENTIOMETER	R12	100K	3266W-1-104LF									
33	2	2.3B Top	2.332 1.045	MTL FLM RES	R1	100K	CF18JA100K									
33	2	2.4C Top	2.827 0.510	MTL FLM RES	R4	100K	CF18JA100K									



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34	3	2.1D Top	1.087 1.520	POTENTIOMETER	R9	100	3266W-1-101LF									
35	3	2.3B Top	2.162 1.145	MTL FLM RES	R2	12.1K	RNC50K12E1FMB144									
36	3	2.1D Top	1.257 1.760	MTL FLM RES	R14	150	CF18JA150R									
37	3	2.4C Top	2.827 0.605	MTL FLM RES	R16	2.21K	RNC50K2E21FMB144									
37	3	2.7D Top	1.922 2.025	MTL FLM RES	R61	2.21K	RNC50K2E21FMB144									
38	3	2.7C Top	1.177 0.585	MTL FLM RES	R6	27.4K	RNC50K27E4FMB144									
39	3	2.4C Top	2.827 0.415	MTL FLM RES	R17	3.57K	RNC50K3E57FMB144									
40	3	2.4B Top	1.727 0.550	MTL FLM RES	R11	3.92K	RNC50K3E92FMB144									
40	3	2.8D Top	2.447 2.025	MTL FLM RES	R62	3.92K	RNC50K3E92FMB144									
41	3	2.5B Top	2.357 0.180	MTL FLM RES	R3	47.5K	RNC50K47E5FMB144									
42	3	2.6B Top	1.422 0.905	MTL FLM RES	R8	475K	RNC50K475EFMB144									
43	3	2.5E Top	0.870 0.860	MTL FLM RES	R15	56.2	RNC50K56D2FMB144									
44	3	2.1C Top	1.297 1.460	MTL FLM RES	R10	750	CF18JA750R									
45	3	2.4C Top	3.147 0.475	PCB SWITCH SPDT R/A ON-OFF-OS	SW1	ET03MD1ABE	ET03MD1ABE									
45	3	2.2E Top	0.600 1.695	PCB SWITCH SPDT R/A ON-OFF-OS	SW2	ET03MD1ABE	ET03MD1ABE									
47	3	2.7B Top	1.152 0.855	IC OSC SGL TIMER	U3	LMC555	LM555CN									
48	3	2.4E Top	0.660 1.110	VOLTAGE REGULATOR 5V	U4	LT1117CST-5	LT1117CST-5#PBF									
49	3	2.8D Top	2.517 1.875	OP AMP	U5	MCP6001	MCP6001T-I/OT									



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50	4	2.3B Top	2.182 0.775	JFET OP AMP	U1	TL081	TL081CP									
50	4	2.5B Top	1.577 0.265	JFET OP AMP	U2	TL081	TL081CP									

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NON-POPULATED and NON-PARTS (do not fill in this sheet)

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1	57	5	1.6F Top -3.950 -1.950	Documentation Artifact	BRD4	DRAWING FRAME	VP: Documentation Artifact									
2	58	5	1.6F Top 7.000 -1.950	Documentation Artifact	BRD3	DRAWING FRAME	VP: Documentation Artifact									
3	59	5	1.6F Bot 0.455 1.350	Documentation Artifact	BRD7	DRAWING FRAME	VP: Documentation Artifact									
4	60	5	1.6F Bot 0.275 1.095	Documentation Artifact	BRD6	DRAWING FRAME	VP: Documentation Artifact									
5	61	5	1.7F Top 0.000 0.000	Documentation Artifact	BRD5	DRAWING FRAME	VP: Documentation Artifact									
20	62	5	2.7F Top 0.207 0.575	Documentation Artifact	ESD1	DRAWING FRAME	VP: Documentation Artifact									
25	63	5	2.1B Top 2.382 1.530	Invalid Flight Part(1)	L1	6T/.375	Invalid Flight Part (see schematic)									
26	64	5	2.7F Top 0.265 0.325	Documentation Artifact	LOGO1	DRAWING FRAME	VP: Documentation Artifact									
27	65	5	2.9B Top 0.000 0.000	Invalid Flight Part(1)	PCB1	102-73156	Invalid Flight Part (see schematic)									
28	66	5	1.10F Top -3.765 5.460	Documentation Artifact	PWA1	DRAWING FRAME	VP: Documentation Artifact									
29	67	5	1.10E Top -3.745 5.440	Documentation Artifact	PWB1	DRAWING FRAME	VP: Documentation Artifact									
46	68	5	Top -3.325 2.000	Documentation Artifact	U\$1	DRAWING FRAME	VP: Documentation Artifact									