



Project: iCARC FOX HUNT
Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC DTOA DIRECTION FINDER, CD404

Board: 102-73170.20
Schematic: 102-73170.20

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	2.3B Top	0.915 0.780	CAP CER X7R 50V SM0603	C2	.01UF	CL10B103KB8NNNC									
6	1	2.5E Bot	0.780 1.530	CAP CER X7R 50V SM0603	C72	.01UF	CL10B103KB8NNNC									
7	1	2.2B Bot	0.915 0.990	CAP CER X7R 50V SM0805	C13	.1UF	CL21B104KBFNNNG									
7	1	2.2B Bot	0.620 0.795	CAP CER X7R 50V SM0805	C14	.1UF	CL21B104KBFNNNG									
8	1	2.1C Bot	1.055 1.400	CAP NPO/BP SM0805	C4	1000PF	C0805C102F5GACTU									
9	1	2.5E Top	0.815 1.495	CAP TANTALUM SMP1210	C73	10UF	10UF									
10	1	2.5B Top	1.275 0.445	CAP X7R/BX SM0805	C20	4.7UF	C2012X7R1E475M125A									
10	1	2.5B Top	1.275 1.300	CAP X7R/BX SM0805	C21	4.7UF	C2012X7R1E475M125A									
10	1	2.5C Top	1.275 0.570	CAP X7R/BX SM0805	C22	4.7UF	C2012X7R1E475M125A									
10	1	2.5C Top	1.275 0.845	CAP X7R/BX SM0805	C23	4.7UF	C2012X7R1E475M125A									
10	1	2.5B Top	1.275 1.175	CAP X7R/BX SM0805	C24	4.7UF	C2012X7R1E475M125A									
10	1	2.5C Top	1.275 0.970	CAP X7R/BX SM0805	C25	4.7UF	C2012X7R1E475M125A									
11	1	2.8C Top	2.345 1.044	CAP NPO/BP SM0603	C1	470PF	C0603C471J5GACTU									
11	1	2.7B Top	2.025 1.133	CAP NPO/BP SM0603	C5A	470PF	C0603C471J5GACTU									
11	1	2.8B Top	2.025 0.954	CAP NPO/BP SM0603	C5B	470PF	C0603C471J5GACTU									
12	1	2.5B Top	1.295 1.410	CAP NPO/BP SM0603	C3A	47PF	C0603C470J5GACAUTO									
12	1	2.5C Top	1.295 0.335	CAP NPO/BP SM0603	C3B	47PF	C0603C470J5GACAUTO									
12	1	2.5D Top	1.285 0.735	CAP NPO/BP SM0603	C3C	47PF	C0603C470J5GACAUTO									



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13	2	2.8B Top	2.160 1.044	DIODE PIN SOT23-3	D1	1SV267	1SV267-TB-E									
14	2	2.4E Top	1.020 0.157	DIODE 5A DO-201-AD	D10	ER502	ER502_R2_00001									
15	2	2.9E Top	6.200 5.400	ENCLOSURE ENCLOSURE	ENCL1	1599BBAT	1599BBKBAT									
18	2	2.2F Top	0.505 0.435	Pad PAD0062	GND	N/A	VP: Not a Physical Part									
19	2	2.1E Top	0.450 1.597	CONN-LTCH-MOLEX-R/A 3 HDR_50_57-9403	J4	0705530002	0705530002									
20	2	2.7B Top	2.025 1.687	CONN BNC R/A COAX_SMA_BNC	J2	5414373-1	5414373-1									
20	2	2.9B Top	2.025 0.400	CONN BNC R/A COAX_SMA_BNC	J3	5414373-1	5414373-1									
21	2	2.9D Top	2.620 1.044	CONN SMA R/A COAX_SMA_BNC	J1	RF2-49B	RF2-49B-T-00-50-G-HDW									
22	2	2.5B Top	1.550 1.350	INDUCTOR AIAC-1812	L1A	100nH	AIAC-1812-R10									
22	2	2.5C Top	1.550 0.630	INDUCTOR AIAC-1812	L1B	100nH	AIAC-1812-R10									
22	2	2.5C Top	1.550 1.000	INDUCTOR AIAC-1812	L1C	100nH	AIAC-1812-R10									
26	2	2.1F Top	0.080 0.450	Pad PAD0062	PAD1	N/A	VP: Not a Physical Part									
26	2	2.1F Top	0.275 0.430	Pad PAD0062	PAD2	N/A	VP: Not a Physical Part									
27	2	2.1B Top	1.302 1.650	POT 100K OHM 0.382 PTV09-A2	R3	100K	PTV09A-2020F-B104									
28	2	2.1B Bot	1.315 1.400	RES THK-FLM SM0805	R2	150K	M55342K06B150ETW									
29	2	2.7B Top	1.780 1.333	RES THK-FLM SM0805	R5A	2.00K	M55342K06B2E00TW									
29	2	2.8B Top	1.780 0.753	RES THK-FLM SM0805	R5B	2.00K	M55342K06B2E00TW									
29	2	2.7C Top	1.780 1.044	RES THK-FLM SM0805	R5C	2.00K	M55342K06B2E00TW									



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30	3	2.1B Bot	1.185 1.400	RES THK-FLM SM0805	R8	220K	M55342K06B221ETW									
31	3	2.8D Bot	2.350 1.044	RES THK-FLM SM0603	R12	825K	M55342K12B825ETW									
31	3	2.7B Top	1.785 1.445	RES THK-FLM SM0603	R4A	825K	M55342K12B825ETW									
31	3	2.8B Top	1.785 0.645	RES THK-FLM SM0603	R4B	825K	M55342K12B825ETW									
31	3	2.8B Top	2.345 1.140	RES THK-FLM SM0603	R4C	825K	M55342K12B825ETW									
32	3	2.2E Top	0.850 1.695	PCB SWITCH SPDT R/A ON-ON SW ET A	SW2	200USP1T1A1M6RE	200USP1T1A1M6RE									
33	3	2.2D Top	0.800 1.050	IC MULTIVIBRATOR SO14	U3	CD4047	CD4047BM96									
34	3	2.4C Top	0.770 0.540	IC INVERTER SO16	U2	CD4049	CD4049UBDR									

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

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1	45	4	1.6E Top -3.950 -1.950	Documentation Artifact	BRD4	DRAWING FRAME	VP: Documentation Artifact									
2	46	4	1.6F Top 7.000 -1.950	Documentation Artifact	BRD3	DRAWING FRAME	VP: Documentation Artifact									
3	47	4	1.6E Bot 0.450 0.570	Documentation Artifact	BRD7	DRAWING FRAME	VP: Documentation Artifact									
4	48	4	1.6F Bot 0.065 1.300	Documentation Artifact	BRD6	DRAWING FRAME	VP: Documentation Artifact									
5	49	4	1.7E Top 0.000 0.000	Documentation Artifact	BRD5	DRAWING FRAME	VP: Documentation Artifact									
16	50	4	2.7F Top 2.785 0.410	Documentation Artifact	ESD1	DRAWING FRAME	VP: Documentation Artifact									
17	51	4	2.3C Top 1.100 0.340	Pad	FRQ	PAD	VP: Not a Physical Part									
23	52	4	2.8E Top 0.000 0.000	Invalid Flight Part(1)	PCB1	102-73170-20	Invalid Flight Part (see schematic)									
24	53	4	1.10F Top -3.765 5.460	Documentation Artifact	PWA1	DRAWING FRAME	VP: Documentation Artifact									
25	54	4	1.10E Top -3.745 5.440	Documentation Artifact	PWB1	DRAWING FRAME	VP: Documentation Artifact									
35	55	4	Top -0.575 4.850	Documentation Artifact	U\$1	DRAWING FRAME	VP: Documentation Artifact									
36	56	4	Top -0.725 0.000	Documentation Artifact	U\$2		VP: Artwork Documentation Artifact									
37	57	4	Top 0.000 -0.425	Documentation Artifact	U\$3		VP: Artwork Documentation Artifact									