



Project: iCARC FOX HUNT
 Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC DTOA DIRECTION FINDER

Board: 102-73170.A
 Schematic: 102-73170.A

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	2.2C Top	1.475 0.680	CER CAP X7R AXX150	C4	0.01UF	RDE5C1HI03J1P1H03B									
6	1	2.2C Top	0.975 1.340	CER CAP X7R AXX150	C5	0.01UF	RDE5C1HI03J1P1H03B									
6	1	2.4E Top	0.675 1.545	CER CAP X7R AXX150	C72	0.01UF	RDE5C1HI03J1P1H03B									
7	1	2.3B Top	0.975 0.647	CER CAP X7R AXX150	C13	0.1UF	320C104K5R5TA									
8	1	2.4C Top	1.695 1.139	CAP CERAMIC SM1210	C2	10UF/CERAMIC	CL32B106KPINNNE									
8	1	2.4C Top	1.695 0.949	CAP CERAMIC SM1210	C2A	10UF/CERAMIC	CL32B106KPINNNE									
9	1	2.4E Top	0.665 1.325	CAP TANTALUM SMP1210	C73	10UF	10UF									
10	1	3.9B Top	6.000 2.900	COAX CABLE SMA HARDWARE_CABLE	CBL3_ANT	115101-19-18.00	115101-19-18.00									
11	1	3.8B Top	3.325 5.310	COAX CABLE SMA HARDWARE_CABLE	CBL2_ALT	415-0029-MM500	415-0029-MM500									
11	1	3.9B Top	3.320 4.860	COAX CABLE SMA HARDWARE_CABLE	CBL3_ALT	415-0029-MM500	415-0029-MM500									
12	1	3.8B Top	6.000 3.375	COAX CABLE SMA HARDWARE_CABLE	CBL2_ANT	415-0033-018	415-0033-018									
13	1	2.7C Top	2.795 1.044	CAP NPO/BP SM0805	C1	470PF	C0805C471J5GACTU									
13	1	2.6C Top	1.900 1.214	CAP NPO/BP SM0805	C3	470PF	C0805C471J5GACTU									
14	1	3.9C Top	6.000 2.400	COAX CABLE SMA HARDWARE_CABLE	CBL1_RADIO	CCBNS-MM-RG174-18	CCBNS-MM-RG174-18									
15	1	2.7B Top	2.575 1.044	DIODE VARACTOR SOT23-3	D1	BAR63-04	BAR6304E6327HTSA1									
16	1	2.3E Top	0.602 0.755	N/A Not Applicable DO-201-AD	D10	N/A 1N4001	Do NOT Install									
17	1	2.8E Top	6.200 5.400	ENCLOSURE ENCLOSURE	ENCL1	1599BBAT	1599BBKBAT									
19	1	3.9D Top	4.975 4.375	CONTACT HARDWARE_CONTACT	HW51	0016020103	0016020103									



Project: iCARC FOX HUNT
Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC DTOA DIRECTION FINDER

Board: 102-73170.A

Schematic: 102-73170.A

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
19	2	3.9D Top	4.975 4.875	CONTACT HARDWARE_CONTACT	HW52	0016020103	0016020103									
19	2	3.9D Top	4.975 5.375	CONTACT HARDWARE_CONTACT	HW53	0016020103	0016020103									
20	2	3.8D Top	4.475 4.625	CONN HOUSING LATCH HARDWARE_HOUSING	HW50	0050579403	0050579403									
21	2	3.8C Top	3.175 4.420	BRASS STANDOFF d.250 d.40 HARDWARE_SPACER	HW6	1547C	1547C									
21	2	3.9C Top	3.450 4.425	BRASS STANDOFF d.250 d.40 HARDWARE_SPACER	HW7	1547C	1547C									
22	2	2.7E Top	5.775 4.100	SCREW-INDIVIDIAL HARDWARE_SCREW	HW1	1593ATS	1593ATS50									
22	2	2.7E Top	6.075 4.100	SCREW-INDIVIDIAL HARDWARE_SCREW	HW2	1593ATS	1593ATS50									
22	2	2.7E Top	6.375 4.100	SCREW-INDIVIDIAL HARDWARE_SCREW	HW3	1593ATS	1593ATS50									
22	2	2.8E Top	6.675 4.100	SCREW-INDIVIDIAL HARDWARE_SCREW	HW4	1593ATS	1593ATS50									
23	2	3.8E Top	4.475 5.125	BATTERY CONTACT & PIGTAIL HARDWARE_BATTERY	HW5	232	232									
24	2	3.9D Top	2.800 4.400	NYLON SPACER D.250 d.125 HARDWARE_WASHER	HW10	9908-250	9908-250									
24	2	3.9D Top	2.800 4.100	NYLON SPACER D.250 d.125 HARDWARE_WASHER	HW11	9908-250	9908-250									
24	2	3.8D Top	2.800 5.050	NYLON SPACER D.250 d.125 HARDWARE_WASHER	HW8	9908-250	9908-250									
24	2	3.8D Top	2.800 4.700	NYLON SPACER D.250 d.125 HARDWARE_WASHER	HW9	9908-250	9908-250									
25	2	2.1E Top	0.230 1.657	CONN-LTCH-MOLEX-R/A HDR_50-57-9403	J4	0705530002	0705530002									
26	2	2.6B Top	2.525 1.687	CONN BNC R/A COAX_SMA_BNC	J2	5414373-1	5414373-1									
26	2	3.8A Top	6.650 -0.425	CONN BNC R/A COAX_SMA_BNC	J2_ALT	5414373-1	5414373-1									
26	2	2.8B Top	2.525 0.400	CONN BNC R/A COAX_SMA_BNC	J3	5414373-1	5414373-1									



Project: iCARC FOX HUNT
Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC DTOA DIRECTION FINDER

Board: 102-73170.A
Schematic: 102-73170.A

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
26	3	3.9A Top	6.650 0.100	CONN BNC R/A COAX_SMA_BNC	J3_ALT	5414373-1	5414373-1									
27	3	2.1D Top	1.300 1.560	JUMPER HEADER HDRB_2	JP1	PBC02SAAN	PBC02SAAN									
27	3	2.2B Top	1.800 1.560	JUMPER HEADER HDRB_2	JP2	PBC02SAAN	PBC02SAAN									
28	3	2.8D Top	3.120 1.044	CONN SMA R/A COAX_SMA_BNC	J1	RF2-49B	RF2-49B-T-00-50-G-HDW									
28	3	3.8A Top	1.575 4.750	CONN SMA R/A COAX_SMA_BNC	J2_ANTENNA	RF2-49B	RF2-49B-T-00-50-G-HDW									
28	3	3.9A Top	1.575 4.250	CONN SMA R/A COAX_SMA_BNC	J3_ANTENNA	RF2-49B	RF2-49B-T-00-50-G-HDW									
29	3	2.7C Top	2.255 1.044	INDUCTOR AIAC-1812	L1A	100nH	AIAC-1812-R10									
29	3	2.7B Top	3.100 1.359	INDUCTOR AIAC-1812	L2A	100nH	AIAC-1812-R10									
29	3	2.8B Top	3.100 0.734	INDUCTOR AIAC-1812	L3A	100nH	AIAC-1812-R10									
31	3	2.7C Top	2.255 1.044	N/A Not Applicable IND_0.3	L1	N/A	Do NOT Install									
31	3	2.6B Top	3.100 1.359	N/A Not Applicable IND_0.3	L2	N/A	Do NOT Install									
31	3	2.8B Top	3.100 0.734	N/A Not Applicable IND_0.3	L3	N/A	Do NOT Install									
35	3	2.1F Top	0.325 0.625	Pad PAD0062	PAD1	N/A	VP: Not a Physical Part									
35	3	2.1F Top	0.125 0.625	Pad PAD0062	PAD2	N/A	VP: Not a Physical Part									
36	3	2.6C Top	1.935 1.044	RES THK-FLM SM0805	R5	100	M55342K06B100DTW									
37	3	2.1C Top	1.400 0.994	CARBON FILM CF0.400	R8	27K	CF18JA27K0									
38	3	2.6B Top	2.770 1.359	RES THK-FLM SM0805	R6	330	M55342K06B332DTW									
38	3	2.8B Top	2.770 0.734	RES THK-FLM SM0805	R7	330	M55342K06B332DTW									



Project: iCARC FOX HUNT
Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC DTOA DIRECTION FINDER

Board: 102-73170.A
Schematic: 102-73170.A

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
39	4	2.2C Top	1.500 0.994	CARBON FILM CF0.400	R2	59K	RNF18FTD59K0									
40	4	2.6C Top	1.900 0.874	N/A Not Applicable SM0805	R4	N/A 100K	Do NOT Install									
41	4	2.1D Top	1.400 1.875	N/A Not Applicable 3296Z	R1B	N/A 50K	Do NOT Install									
41	4	2.1B Top	1.900 1.875	N/A Not Applicable 3296Z	R3B	N/A 50K	Do NOT Install									
42	4	2.1D Top	1.350 1.675	N/A Not Applicable BOURNS_3310-001	R1	N/A 50K	Do NOT Install									
42	4	2.2B Top	1.850 1.675	N/A Not Applicable BOURNS_3310-001	R3	N/A 50K	Do NOT Install									
43	4	2.2E Top	0.600 1.695	PCB SWITCH SPDT R/A ON-ON SW_ET_A	SW2	200USP1T1A1M6RE	200USP1T1A1M6RE									
45	4	2.3C Top	1.125 0.994	IC OSC SGL TIMER DIL08	U3	TLC555	TLC555CP									

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

Department of
Physics & Astronomy

Project: iCARC FOX HUNT

ICARC DTOA DIRECTION FINDER

Assembly: 102-00000

Board: 102-73170.A

Schematic: 102-73170.A

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
1	63	5	1.6E Top -3.950 -1.950	Documentation Artifact	BRD4	DRAWING FRAME	VP: Documentation Artifact									
2	64	5	1.6F Top 7.000 -1.950	Documentation Artifact	BRD3	DRAWING FRAME	VP: Documentation Artifact									
3	65	5	1.6E Bot 1.280 0.475	Documentation Artifact	BRD7	DRAWING FRAME	VP: Documentation Artifact									
4	66	5	1.6F Bot 1.590 0.280	Documentation Artifact	BRD6	DRAWING FRAME	VP: Documentation Artifact									
5	67	5	1.7E Top 0.000 0.000	Documentation Artifact	BRD5	DRAWING FRAME	VP: Documentation Artifact									
18	68	5	2.7F Top 0.237 0.365	Documentation Artifact	ESD1	DRAWING FRAME	VP: Documentation Artifact									
30	69	5	2.7F Top 0.600 0.070	Documentation Artifact	LOGO1	DRAWING FRAME	VP: Documentation Artifact									
32	70	5	2.9E Top 0.000 0.000	Invalid Flight Part(1)	PCB1	102-73170	Invalid Flight Part (see schematic)									
33	71	5	1.10F Top -3.765 5.460	Documentation Artifact	PWA1	DRAWING FRAME	VP: Documentation Artifact									
34	72	5	1.10E Top -3.745 5.440	Documentation Artifact	PWB1	DRAWING FRAME	VP: Documentation Artifact									
44	73	5	Top -3.325 2.000	Documentation Artifact	U\$1	DRAWING FRAME	VP: Documentation Artifact									
46	74	5	Top -0.175 0.000	Documentation Artifact	U\$2		VP: Artwork Documentation Artifact									
47	75	5	Top 0.000 -0.425	Documentation Artifact	U\$3		VP: Artwork Documentation Artifact									