



Project: iCARC FOX HUNT
 Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC DTOA DIRECTION FINDER, CD4047

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 | CL10B103KB8NUNC | | | | | | | | | |
| 6 | 1 | 2.5E Bot | 0.780 1.530 | CAP CER X7R 50V SM0603 | C72 | .01UF | CL10B103KB8NUNC | | | | | | | | | |
| 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 | C0603C470J5GACAU0 | | | | | | | | | |
| 12 | 1 | 2.5C Top | 1.295 0.335 | CAP NPO/BP SM0603 | C3B | 47PF | C0603C470J5GACAU0 | | | | | | | | | |
| 12 | 1 | 2.5D Top | 1.285 0.735 | CAP NPO/BP SM0603 | C3C | 47PF | C0603C470J5GACAU0 | | | | | | | | | |



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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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 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 |
|-------|------|--------------------|---------------|-----------------------------------|---------|-----------------|--------------------|--------|-----------|---------|-----------|---------|-----------|---------|---------|---------|
| 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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ICARC DTOA DIRECTION FINDER, CD404

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Board: 102-73170.20

Schematic: 102-73170.20

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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 | | | | | | | | | |