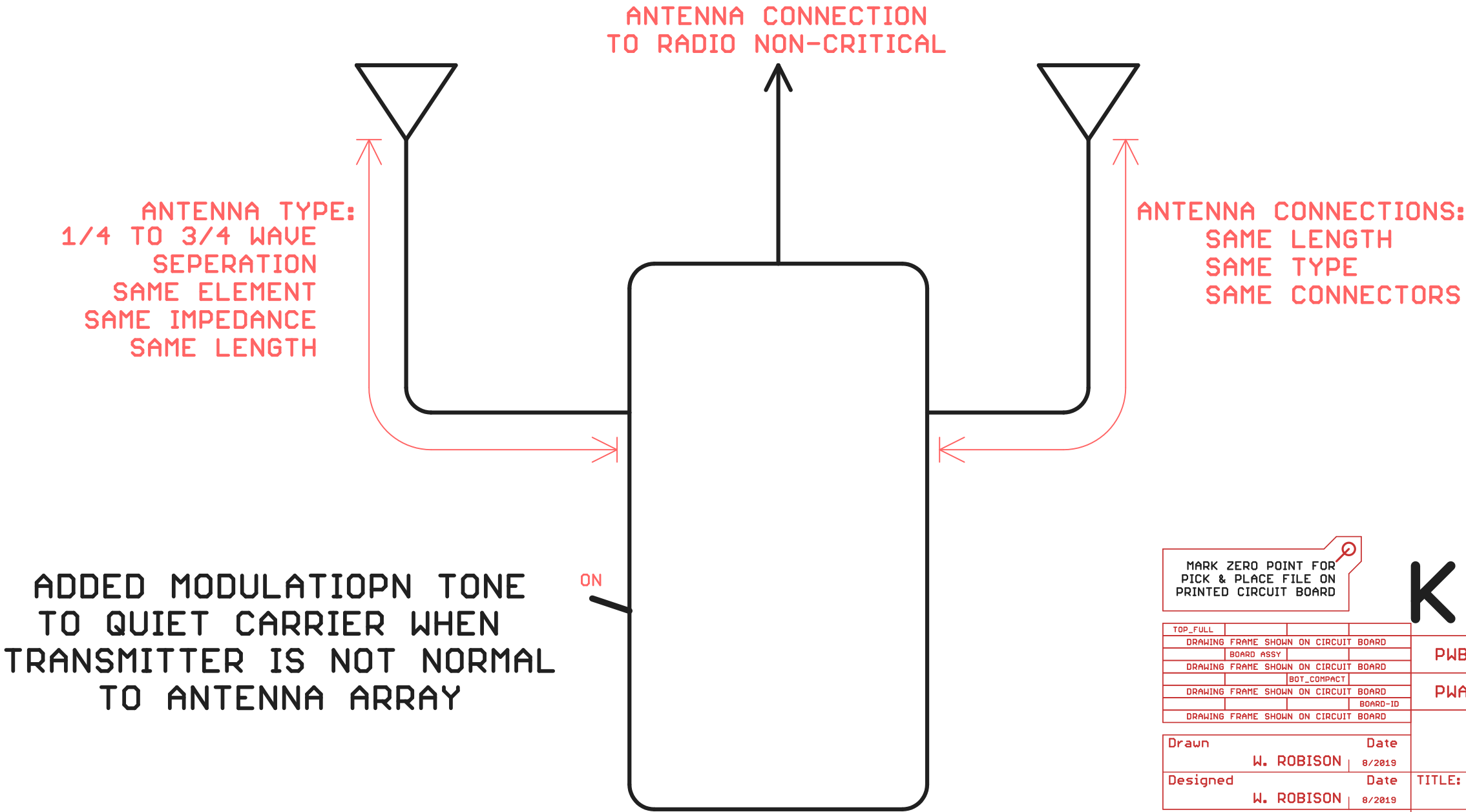


DIFFERENTIAL TIME OF ARRIVAL DIRECTION FINDER



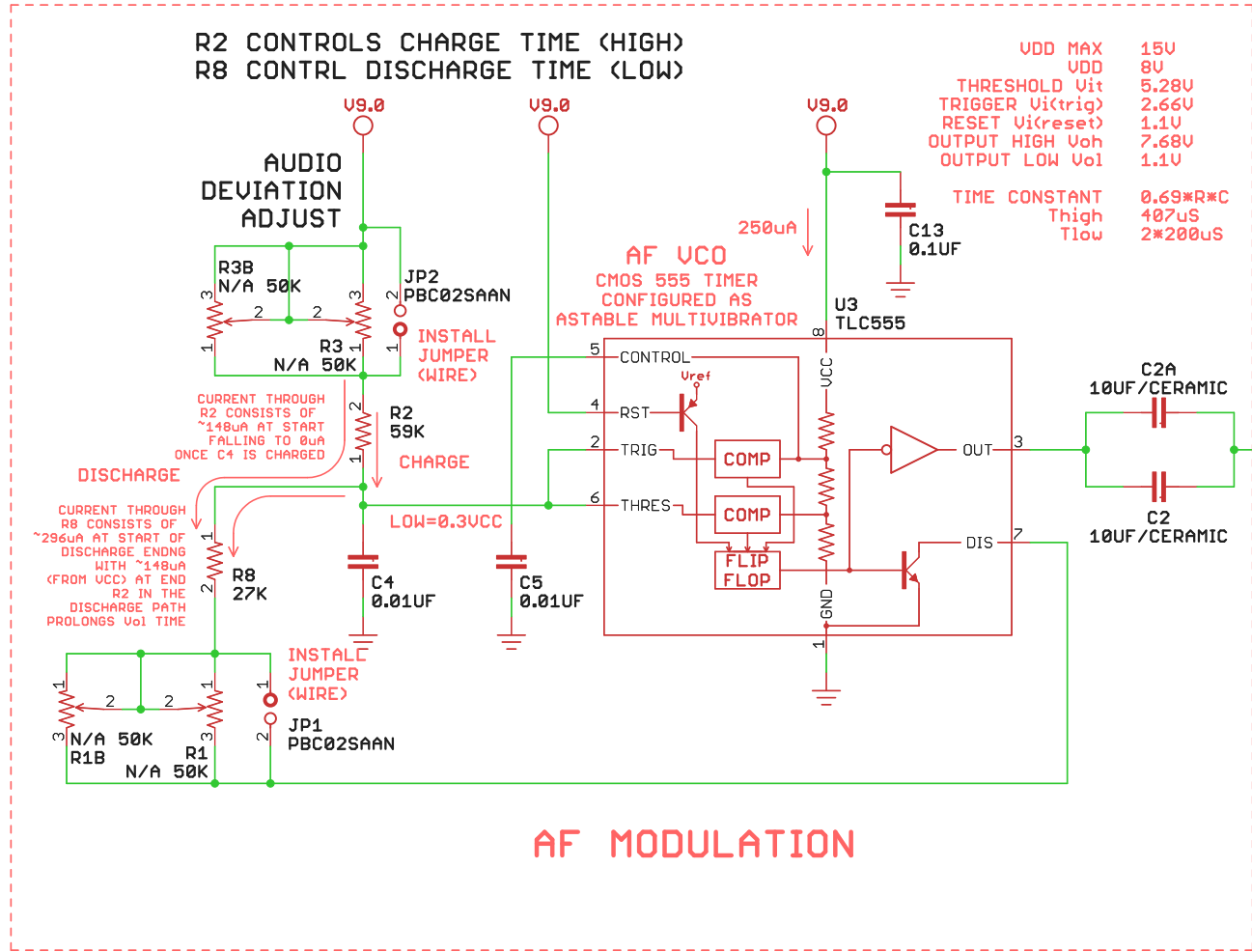
MARK ZERO POINT FOR
PICK & PLACE FILE ON
PRINTED CIRCUIT BOARD

KCØJFQ

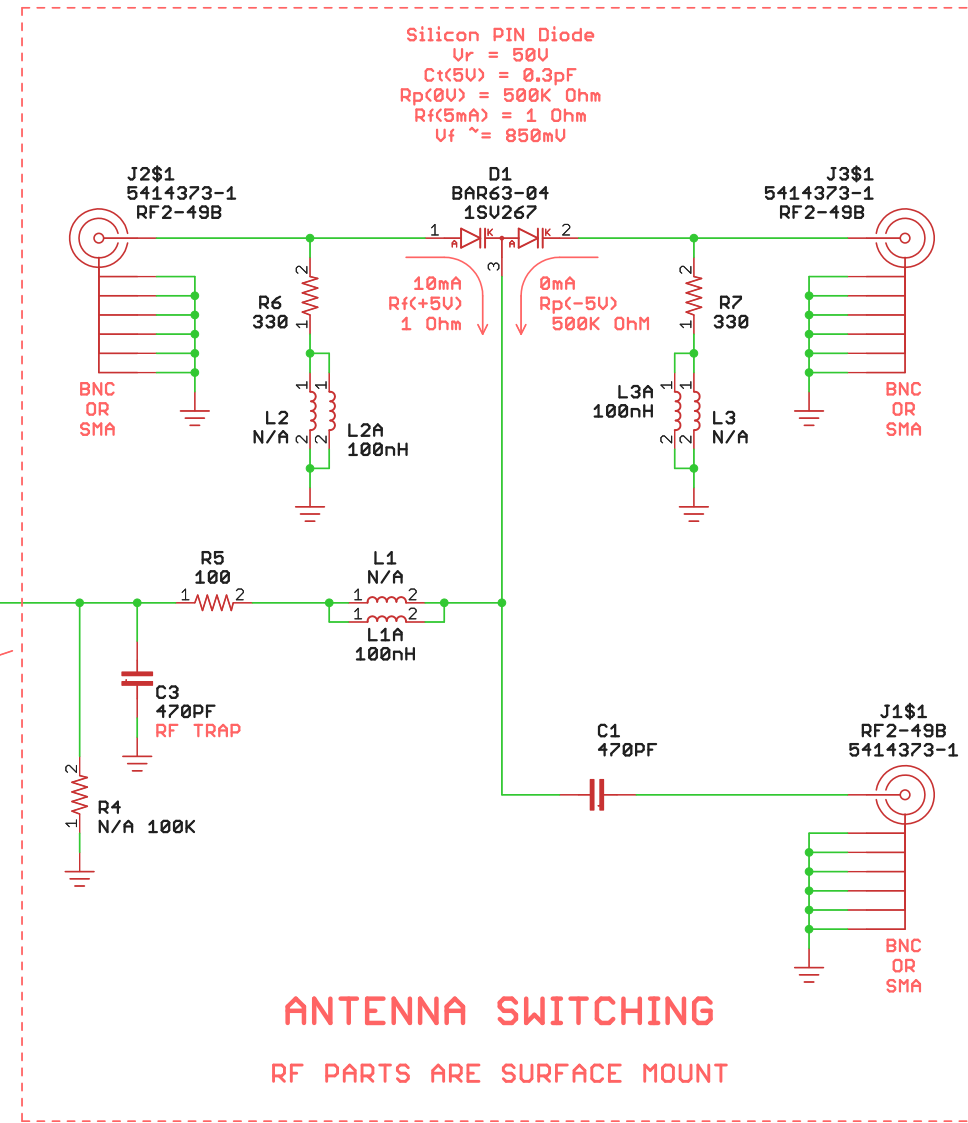
TOP_FULL		
DRAWING FRAME SHOWN ON CIRCUIT BOARD		
BOARD ASSY		
DRAWING FRAME SHOWN ON CIRCUIT BOARD		
	BOT_COMPACT	
DRAWING FRAME SHOWN ON CIRCUIT BOARD		
		BOARD-ID
DRAWING FRAME SHOWN ON CIRCUIT BOARD		

Drawn	Date
W. ROBISON	8/2019
Designed	Date
W. ROBISON	8/2019

PWB RELEASED AS 2D354 102 - 73170 - A				
PWA RELEASED AS 2D354 102 - 73170 - A				
The University of Iowa Department of Physics & Astronomy Iowa City, IA, USA				
TITLE: ICARC DTOA DIRECTION FINDER A102_73170_A				
CAGE	Series		Number	2 Layers
2D354	102	ICARC FOX HUNT	B 73170	Rev A
Date: not saved!				
3/29/23 4:37 PM Sheet: 1/3				



BNC FROM ANTENNA (WIRE)

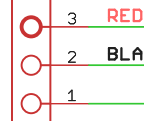


BNC FROM ANTENNA (WIRE)

SMA TO RADIO

YOU MAY SOLDER THE BATTERY PIGTAIL DIRECTLY TO THESE PADS

J4 0705530002



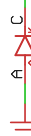
PAD1 N/A

PAD2 N/A

CHOOSE SWITCH WITH SHORT BAT TO AVOID DAMAGE

SW2 200USP1T1A1M6RE ET01MD1ABE (C&K)

REVERSE PROTECTION (80SQ045NG)



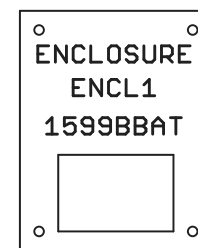
INPUT FILTER



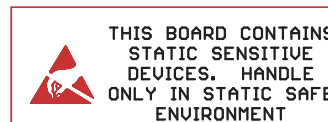
U9.0

BOARD MOUNTING SCREWS

HW1 1593ATS HW2 1593ATS HW3 1593ATS HW4 1593ATS



PCB1 102-73170



Drawn W. ROBISON Date 8/2019

Designed W. ROBISON Date 8/2019



The University of Iowa
Department of Physics & Astronomy
Iowa City, IA, USA

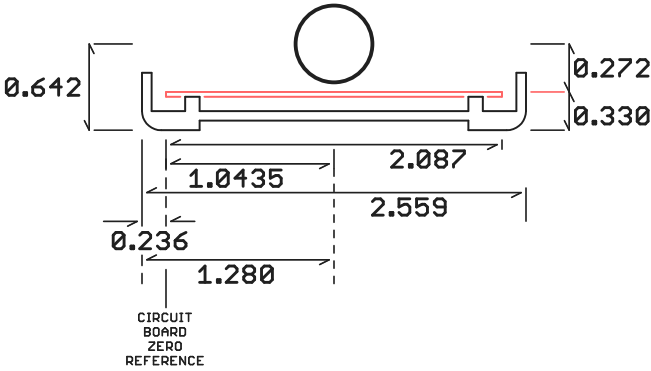
TITLE: ICARC DTOA DIRECTION FINDER A102_73170_A

CAGE 2D354 Series 102 iCARC FOX HUNT Number 73170 Rev A

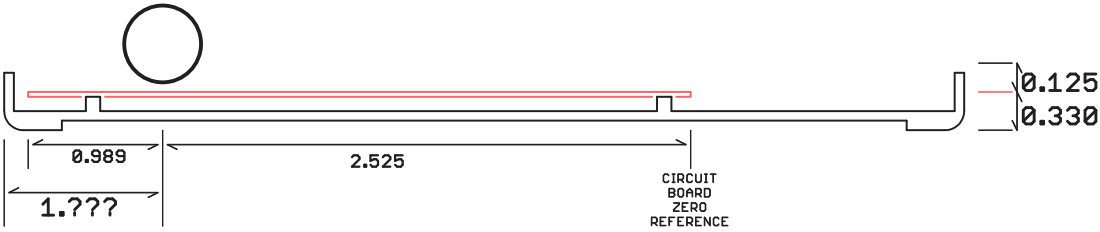
Date: not saved! 3/29/23 4:37 PM Sheet: 2/3

HM1599BBAT MECHANICAL DETAILS

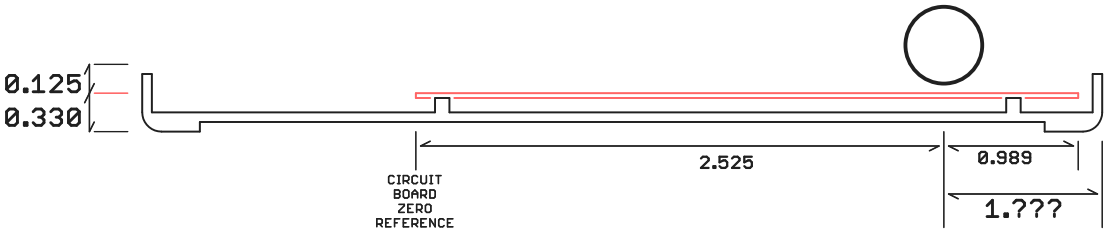
RADIO CONNECTOR



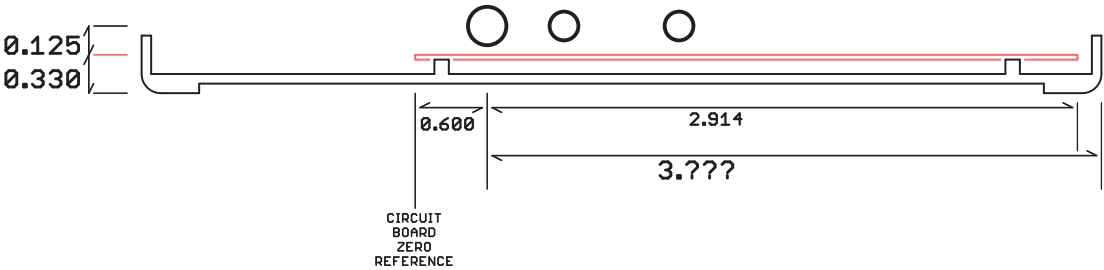
ANTENNA CONNECTORS



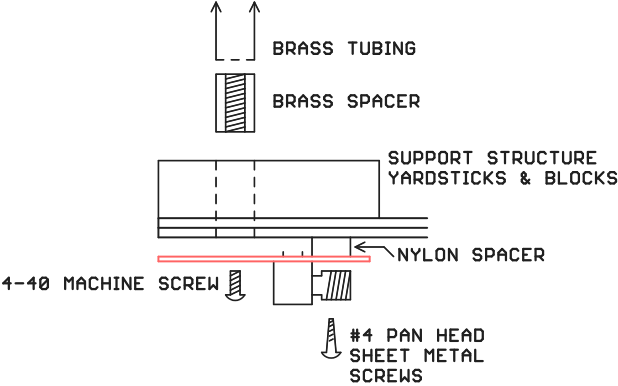
ANTENNA CONNECTORS



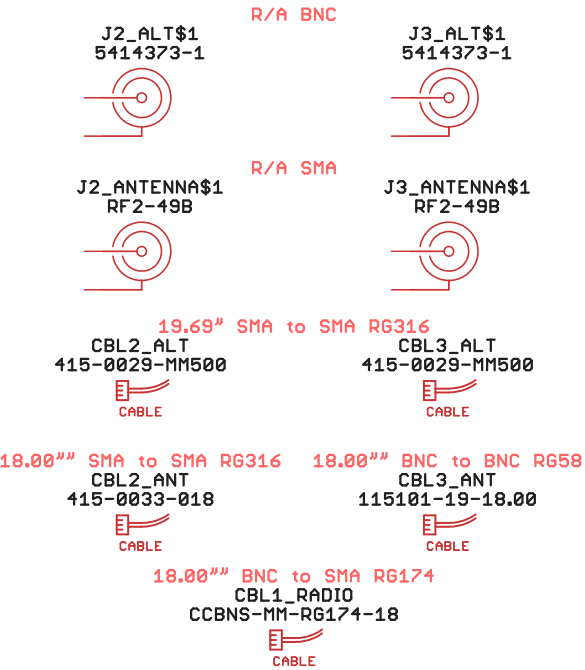
POWER AND TIMING



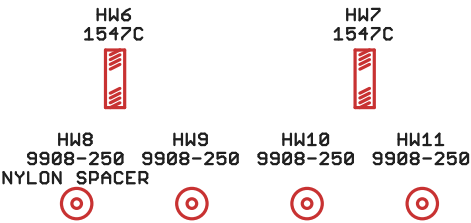
ANTENNA ELEMENT MOUNTING (BASE)



CABLE AND COAX SELECTION

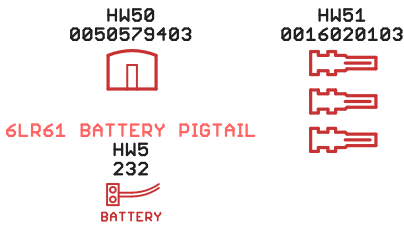


ANTENNA MOUNTING HARDWARE

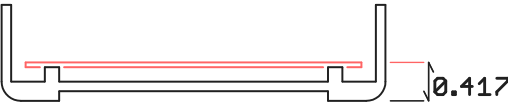


BATTERY CONNECTOR

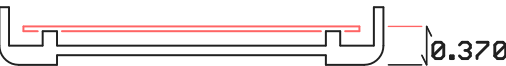
YOU MAY OMIT HW50 AND HW51 TO REDUCE COST



CIRCUIT BOARD HEIGHT ABOVE BASELINE



CIRCUIT BOARD HEIGHT ABOVE BASELINE (BASE)



NOT TO SCALE

Drawn	W. ROBISON	Date	8/2019
Designed	W. ROBISON	Date	8/2019

The University of Iowa Department of Physics & Astronomy Iowa City, IA, USA				
TITLE: ICARC DTOA DIRECTION FINDER				
A102_73170_A				
CAGE	Series	B	Number	2 Layers
2D354	102		73170	Rev
Date: not saved!		3/29/23 4:37 PM		Sheet: 3/3