

PORT

STBD

10dB

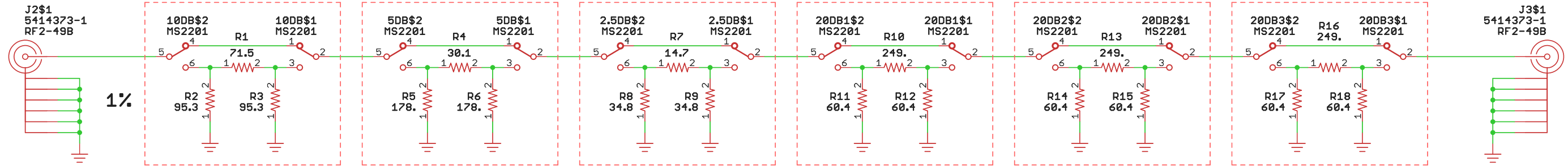
5dB

2.5dB

20dB

20dB

20dB



0.5%

71.5
96.5

30.1
178.

14.5
348.

246.
61.2

246.
61.2

246.
61.2

CALCULATED
VALUE

71.15
96.25

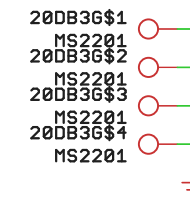
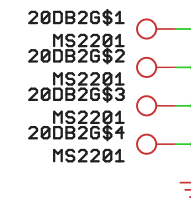
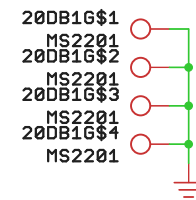
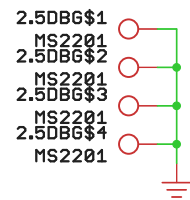
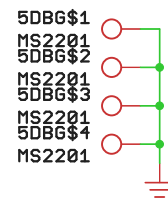
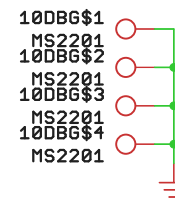
30.40
178.5

14.59
349.8

247.5
61.11

247.5
61.11

247.5
61.11



ATTEN dB	R-PAR			R-SER		
	CALC	1%	0.5%	CALC	1%	0.5%
1.0	869.5	86.6		5.769	57.6	
2.5	349.8	348.		14.59	14.7	14.5
3.0	292.4	294.	291.	17.61	17.8	17.6
5.0	178.5	178.		30.40	30.1	30.5
6.0	150.0	150.		37.35	37.4	
10.0	96.25	95.3	96.5	71.15	71.5	
15.0	71.63	71.5		136.1	137.	
20.0	61.11	60.4	61.2	247.5	249.	
30.0	53.27	53.6	53.0	789.8	787.	
40.0	51.01	51.1		2500.	2490	

PCB1
102-73170-20



ENCLOSURE
ENCL1
1599BBAT

KC0JFQ

THIS BOARD CONTAINS
STATIC SENSITIVE
DEVICES. HANDLE
ONLY IN STATIC SAFE
ENVIRONMENT

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

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	W. ROBISON	Date 5/2023
Designed	W. ROBISON	Date 5/2023

PWB RELEASED AS 2D354 102 - >D_NUMBER_PWB

PWA RELEASED AS 2D354 102 - >D_NUMBER_PWA

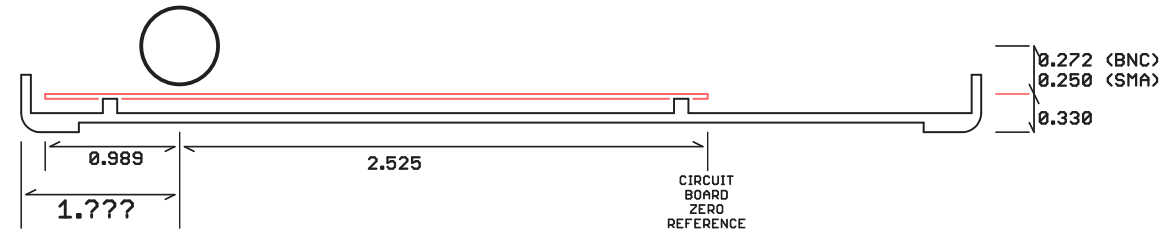
The University of Iowa
Department of Physics & Astronomy
Iowa City, IA, USA

TITLE: ICARC STEP ATTENUATOR
A102_73223_1

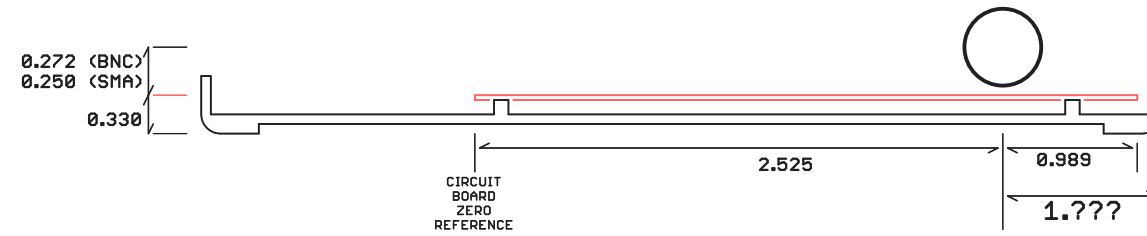
CAGE	Series	Number	2 Layers	Rev
2D354	102 ICARC FOX HUNT	B 73223		1
Date: 15 Jan 2025 14:37:34		Jan 2025 14:37:48		Sheet: 1/2

HM1599BBAT MECHANICAL DETAILS

ANTENNA CONNECTORS



ANTENNA CONNECTORS



CIRCUIT BOARD HEIGHT ABOVE BASELINE



CIRCUIT BOARD HEIGHT ABOVE BASELINE (BASE)



NOT TO SCALE

Drawn	W. ROBISON	Date	5/2023
Designed	W. ROBISON	Date	5/2023

The University of Iowa Department of Physics & Astronomy Iowa City, IA, USA			
TITLE: ICARC STEP ATTENUATOR			A102_73223_1
CAGE	Series	Number	2 Layers Rev
2D354	102 ICARC FOX HUNT	B 73223	1
Date: 15 Jan 2025 14:37:34			Sheet: 2/2