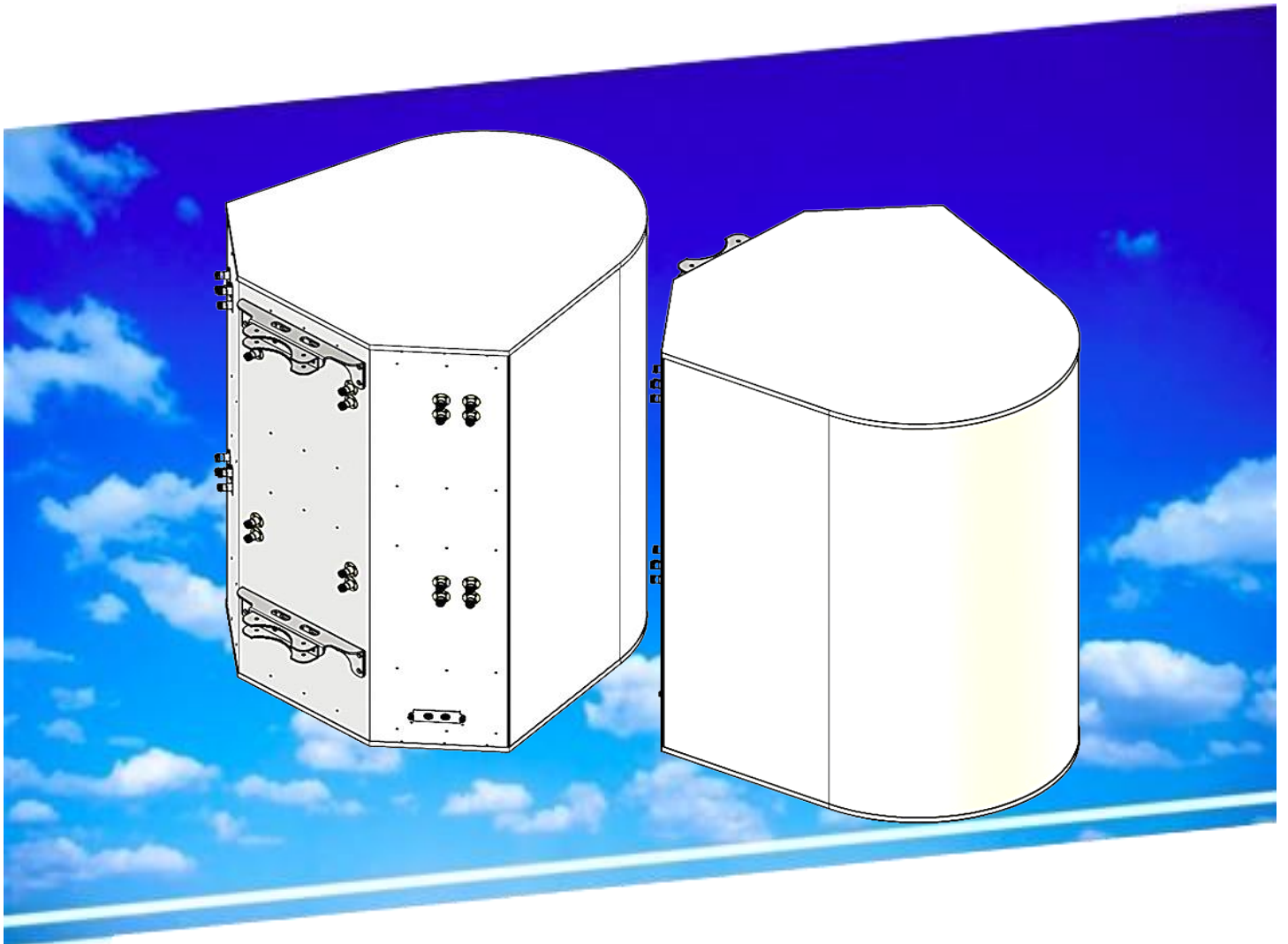


# MATSING<sup>®</sup>

LENS TECHNOLOGY ENABLED

## MS-MBA-6-H4

Instruction Manual



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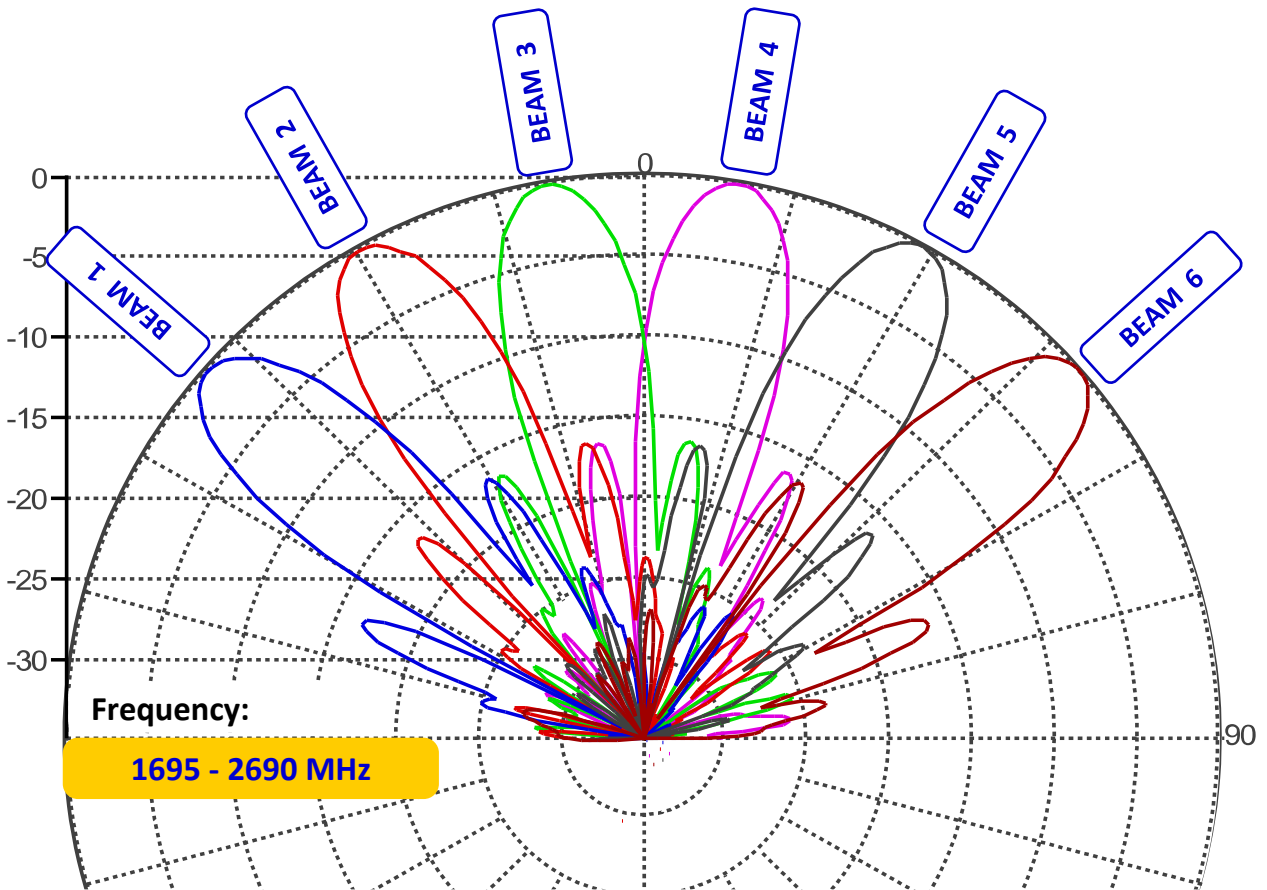
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### Revision History:

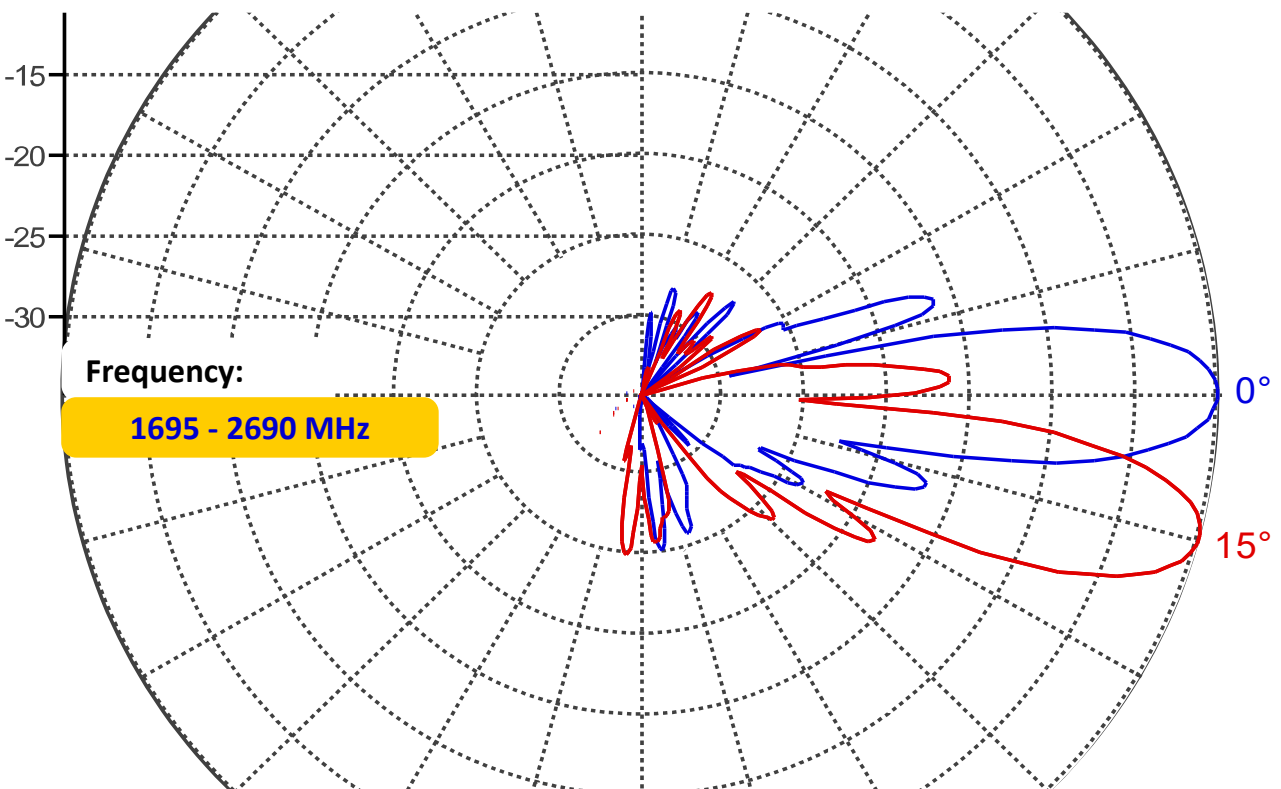
<u>Date</u>	<u>Description</u>	<u>Rev By</u>	<u>Check By</u>	<u>Rev no</u>
06-Jun-2024	Initial Release	RL	Pavel	0
07-Aug-2024	Include RET Operation / Information	RL	Pavel	1

# 1.00 PATTERN DIAGRAM

## 1.10 Horizontal Pattern

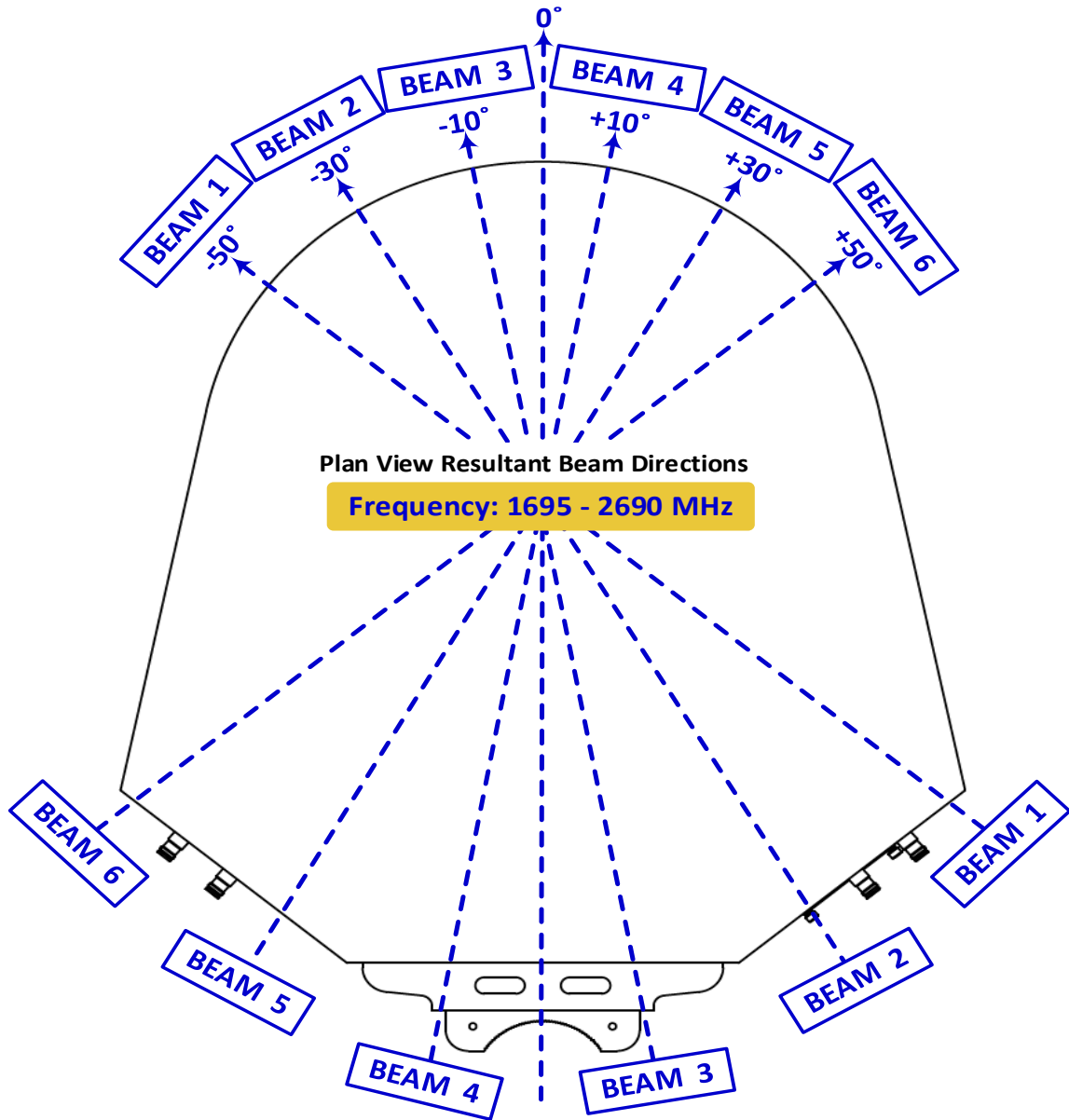


## 2.20 Vertical Pattern

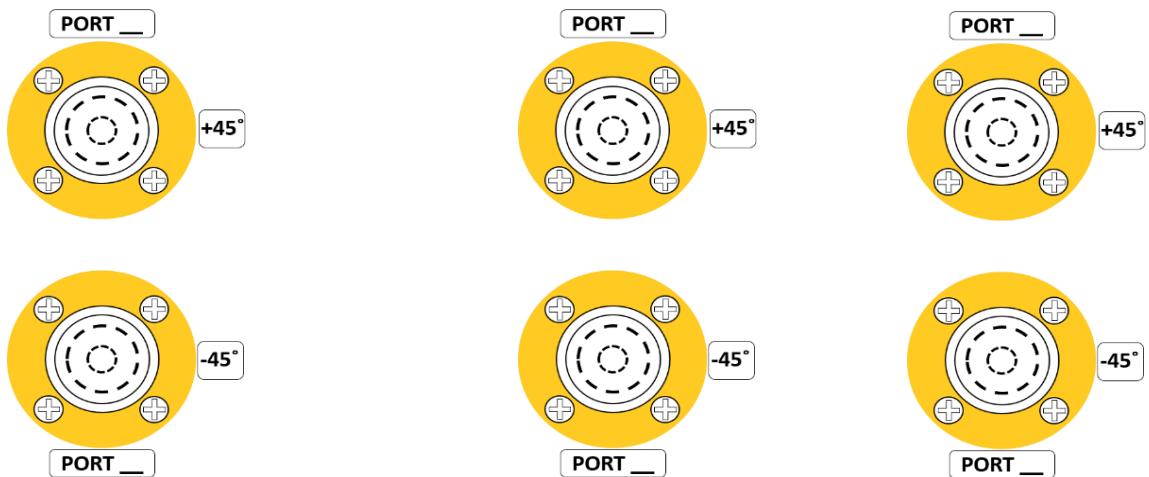


## 2.00 BEAMS & CONNECTOR

### 2.10 Plan View Resultant Beam Layout



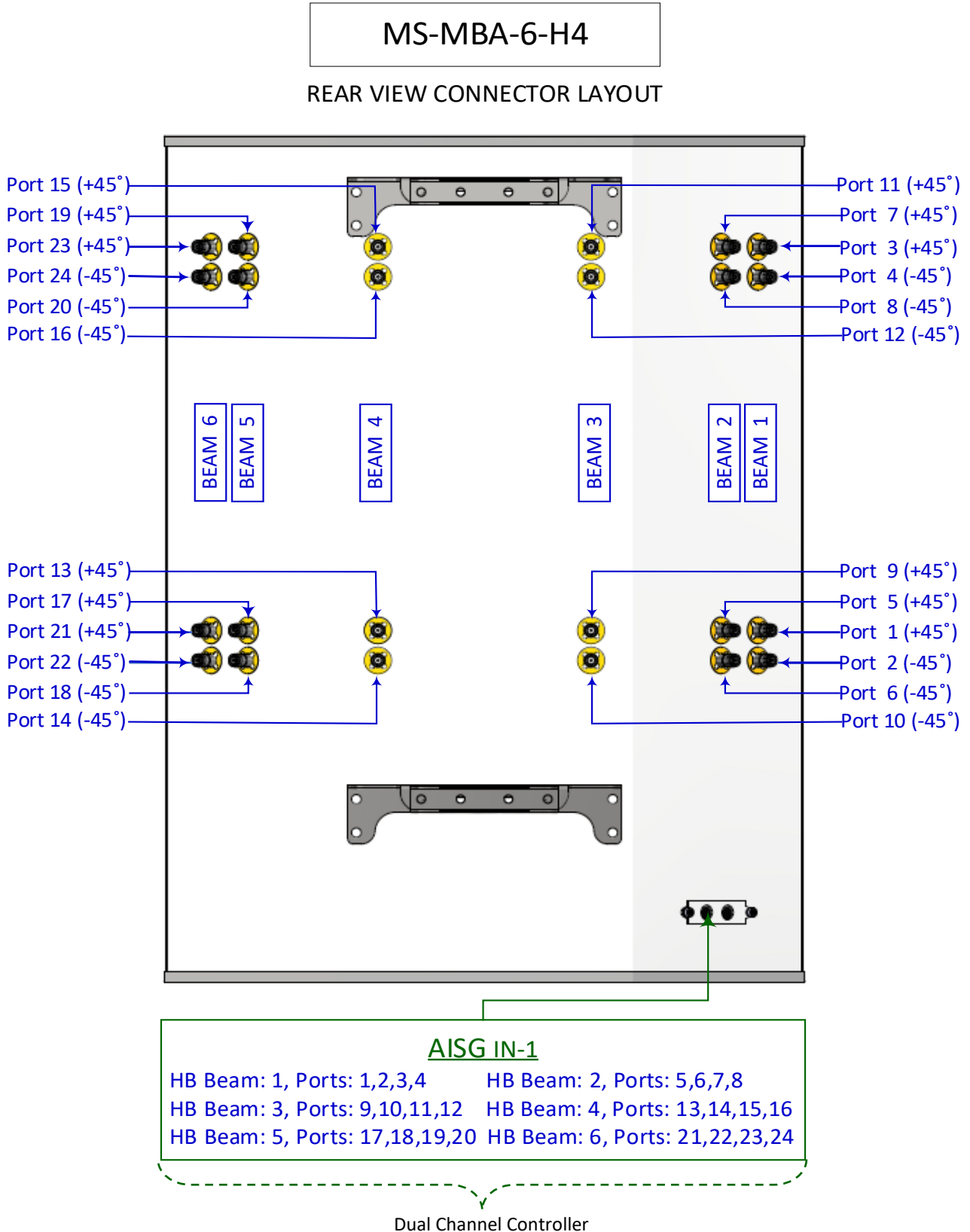
### 2.20 Connector Detail



### 2.30 Connector Port Table

BEAM 6	BEAM 5	BEAM 4	BEAM 3	BEAM 2	BEAM 1
Port 23 (+45°)	Port 19 (+45°)	Port 15 (+45°)	Port 11 (+45°)	Port 7 (+45°)	Port 3 (+45°)
Port 24 (-45°)	Port 20 (-45°)	Port 16 (-45°)	Port 12 (-45°)	Port 8 (-45°)	Port 4 (-45°)
Port 21 (+45°)	Port 17 (+45°)	Port 13 (+45°)	Port 9 (+45°)	Port 5 (+45°)	Port 1 (+45°)
Port 22 (-45°)	Port 18 (-45°)	Port 14 (-45°)	Port 10 (-45°)	Port 6 (-45°)	Port 2 (-45°)

### 2.40 Rear View Connector Layout



### 3.00 RET Operations / Information

A standard AISG 2.0 compliant cable (not included) is used to connect the MDCU to the AISG interface control. Once connected, use an AISG 2.0 compliant Control software to perform a Sub Unit SCAN to identify the RET Elements.

#### 3.10 Example of s/nos Label Reference



Model No. : MS-MBA-6-H4  
 Serial No. : MS-MBA-6-H4-00001  
 Frequency: 1695 – 2690 MHz

RET Controller Serial #  
 MBA6H40001MM

#### 1 Dual Channel Controller

Delete Zero in front if the serial nos is more than 4 digits

**Reminder:** If Information Has Been Edited, Remember to Perform "Radio Hard Reset" for Changes to take Place

#### 3.20 Display & Information Reference

ALD List

NO	HDLC	Vendor	Serial Number	Product Number	H/W Version	S/W Version	3GPP	Device	AISG	Connect	Link
1	1	MS	0000000000000000	ACS-RMC20	1.00	1.X	6	Multi RET	2	Connect	Link
2	2	MS	MBA6H40001MM	ACS-RMC20	1.00	1.17	6	Multi RET	2	Connect	Link



#### 3.30 Beam Nos & Port Nos Display

RET ID : MSMB6H40001MM

RET Status and Control

Antenna Information List				BEAM 6	BEAM 5	BEAM 4	BEAM 3	BEAM 2	BEAM 1
NO	Sector ID	Ant Model	Ant Serial	Port 23 (+45°)	Port 19 (+45°)	Port 15 (+45°)	Port 11 (+45°)	Port 7 (+45°)	Port 3 (+45°)
1/6	Beam 1 (Ports 1, 2, 3, 4)	MS-MBA-6-H4	MSMBA6H40001	Port 24 (-45°)	Port 20 (-45°)	Port 16 (-45°)	Port 12 (-45°)	Port 8 (-45°)	Port 4 (-45°)
2/6	Beam 2 (Ports 5, 6, 7, 8)	MS-MBA-6-H4	MSMBA6H40001	Port 21 (+45°)	Port 17 (+45°)	Port 13 (+45°)	Port 9 (+45°)	Port 5 (+45°)	Port 1 (+45°)
3/6	Beam 3 (Ports 9, 10, 11, 12)	MS-MBA-6-H4	MSMBA6H40001	Port 22 (-45°)	Port 18 (-45°)	Port 14 (-45°)	Port 10 (-45°)	Port 6 (-45°)	Port 2 (-45°)
4/6	Beam 4 (Ports 13, 14, 15, 16)	MS-MBA-6-H4	MSMBA6H40001						
5/6	Beam 5 (Ports 17, 18, 19, 20)	MS-MBA-6-H4	MSMBA6H40001						
6/6	Beam 6 (Ports 21, 22, 23, 24)	MS-MBA-6-H4	MSMBA6H40001						

## 4.00 BRACKET INSTALLATION

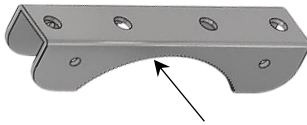
### 4.10 Bolts & Nuts / Tools

#### 4.11 Bolts & Nuts

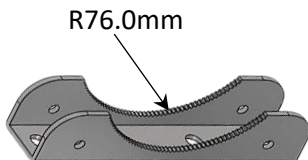


Bracket	Bolts		Nuts	
Qty	Size	Qty	Size	Qty
2	M12 x 200mm	4	M12	10

#### 4.12 Bracket



R76.0mm



R76.0mm

### 4.20 Tools Requirement

#### 4.21 Adjustable Spanner



#### 4.22 M12 Spanner



### 4.30 Bracket Spacing & Installation Guide

