

MATSING[®]

LENS TECHNOLOGY ENABLED

MS-MBC-4.2-H4-12-L4-20

Instruction Manual

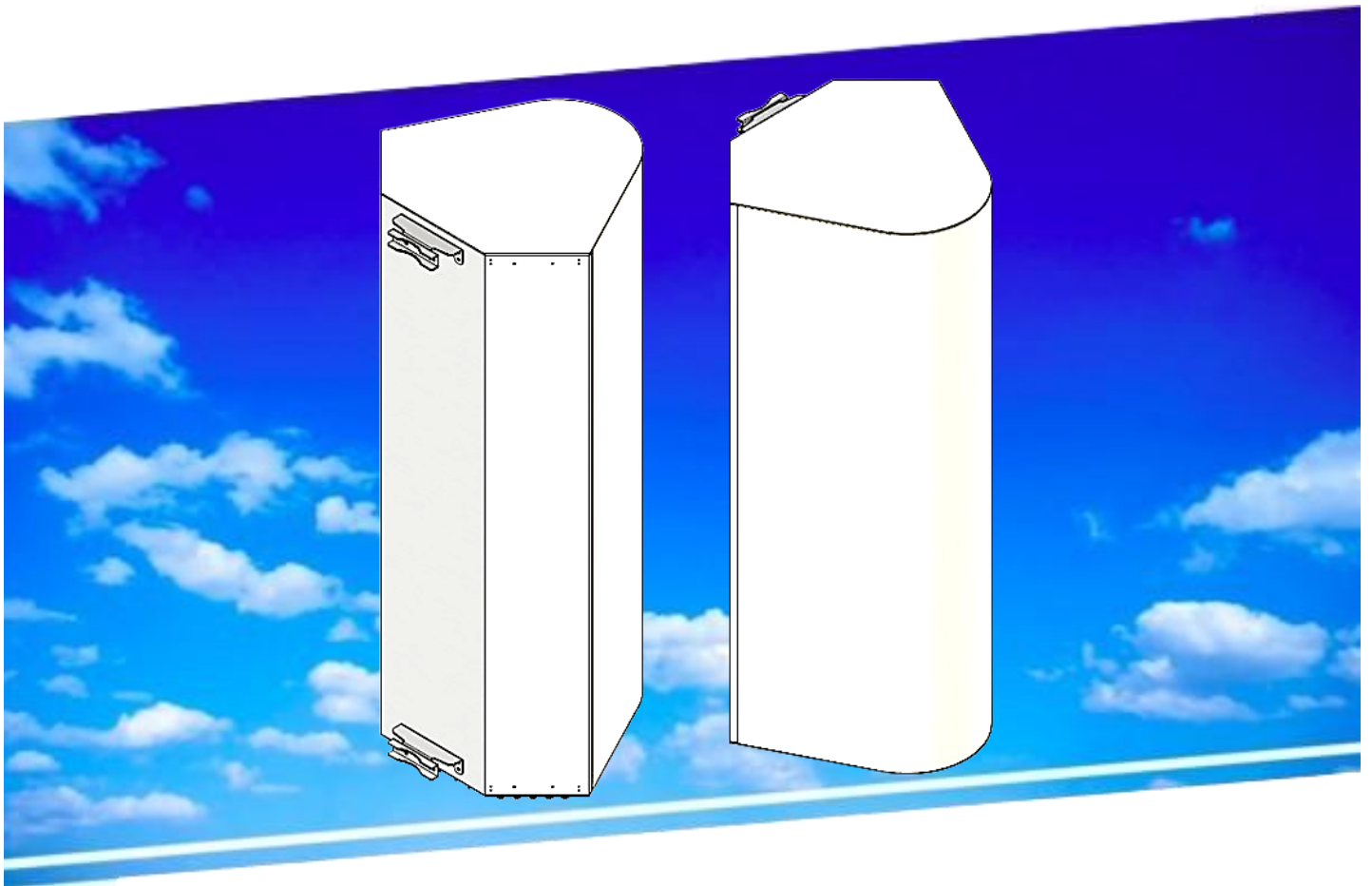


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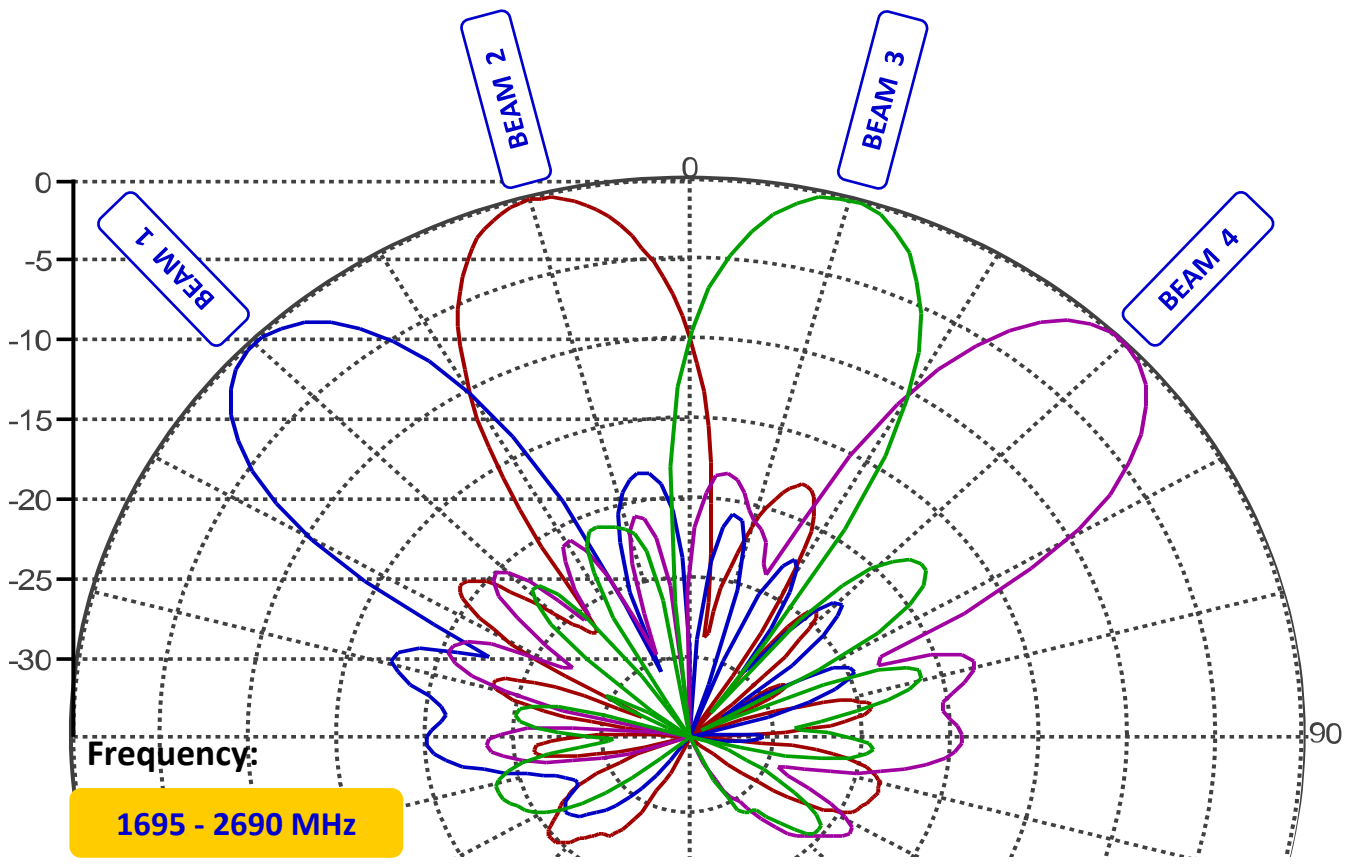
Revision History:

<u>Date</u>	<u>Description</u>	<u>Rev By</u>	<u>Check By</u>	<u>Rev no</u>
18-Nov-2024	Initial Release	RL	Pavel	0
04-Mar-2025	Revised of connector layout	RL	Pavel	1
02-Mar-2026	Revised RET Controller s/nos	BK/RL	Pavel	2

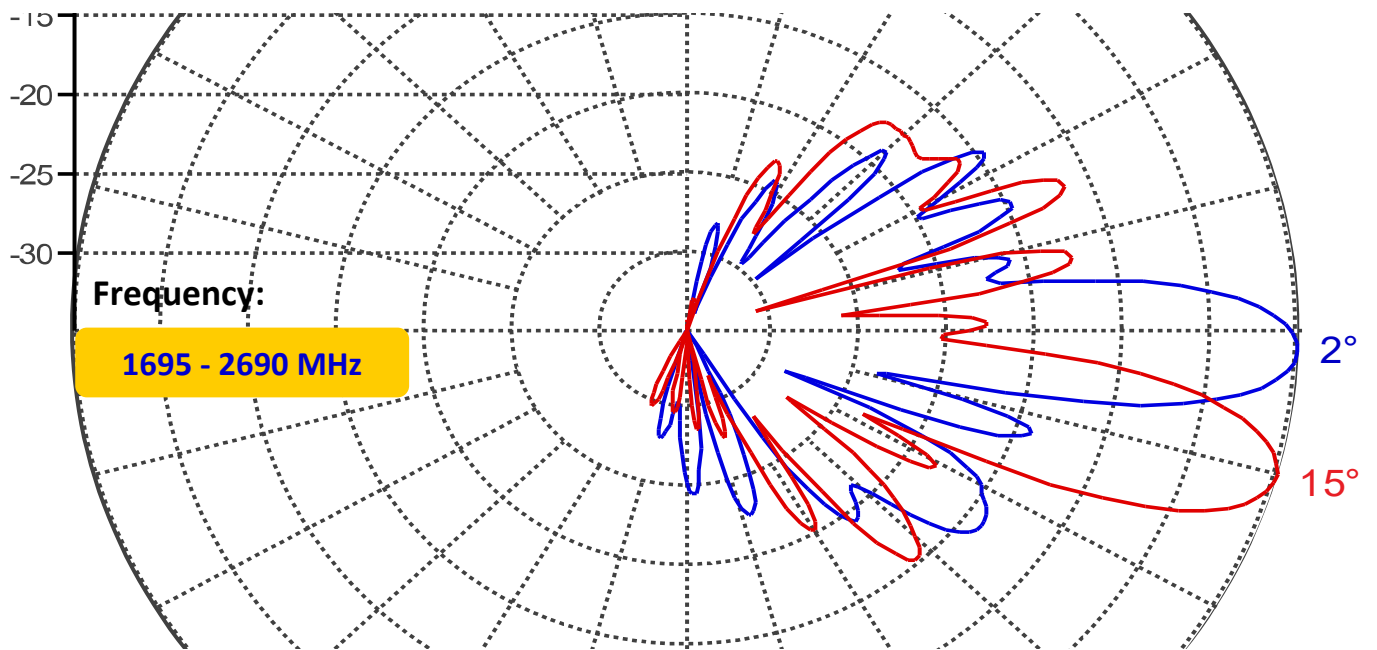
1.00 Pattern diagram

1.10 High band

1.11 Horizontal pattern

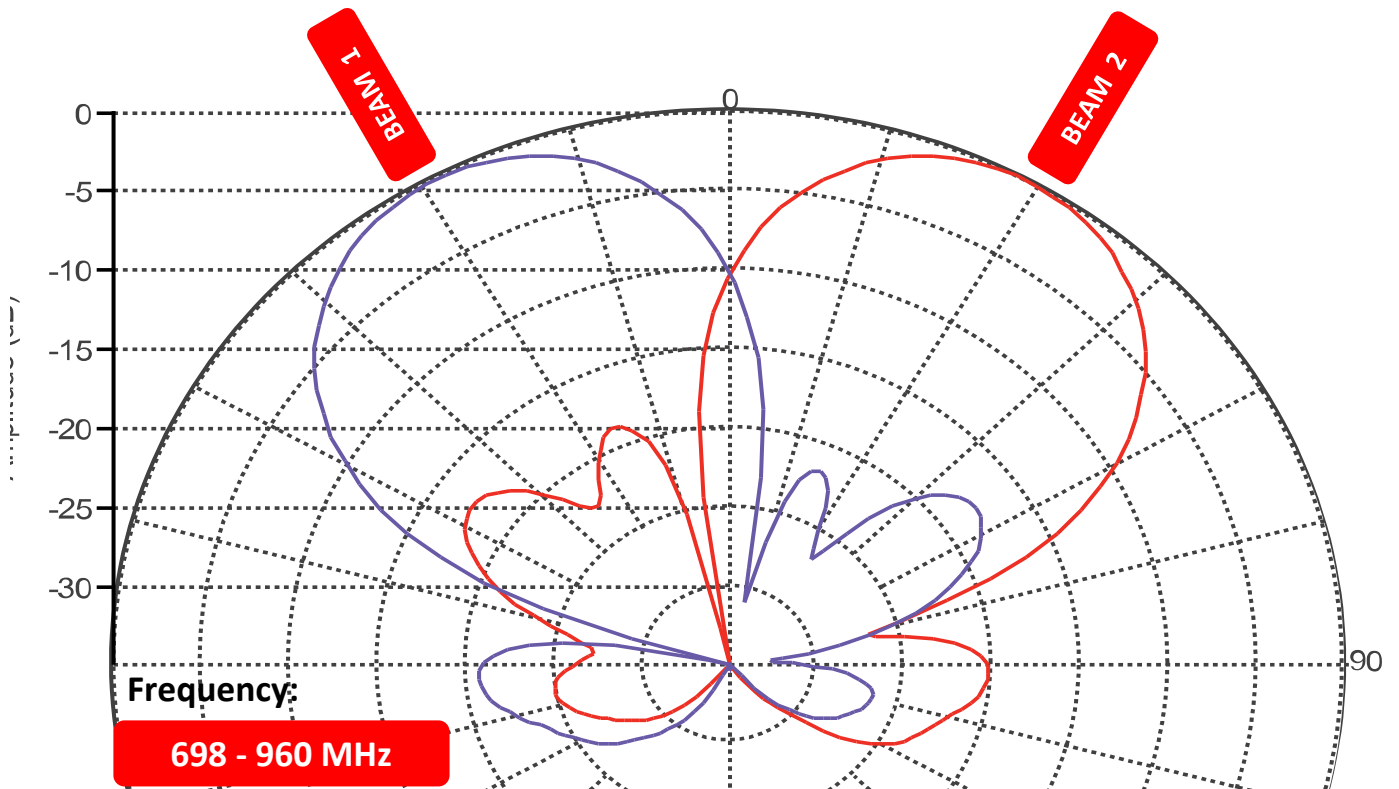


1.12 Vertical pattern

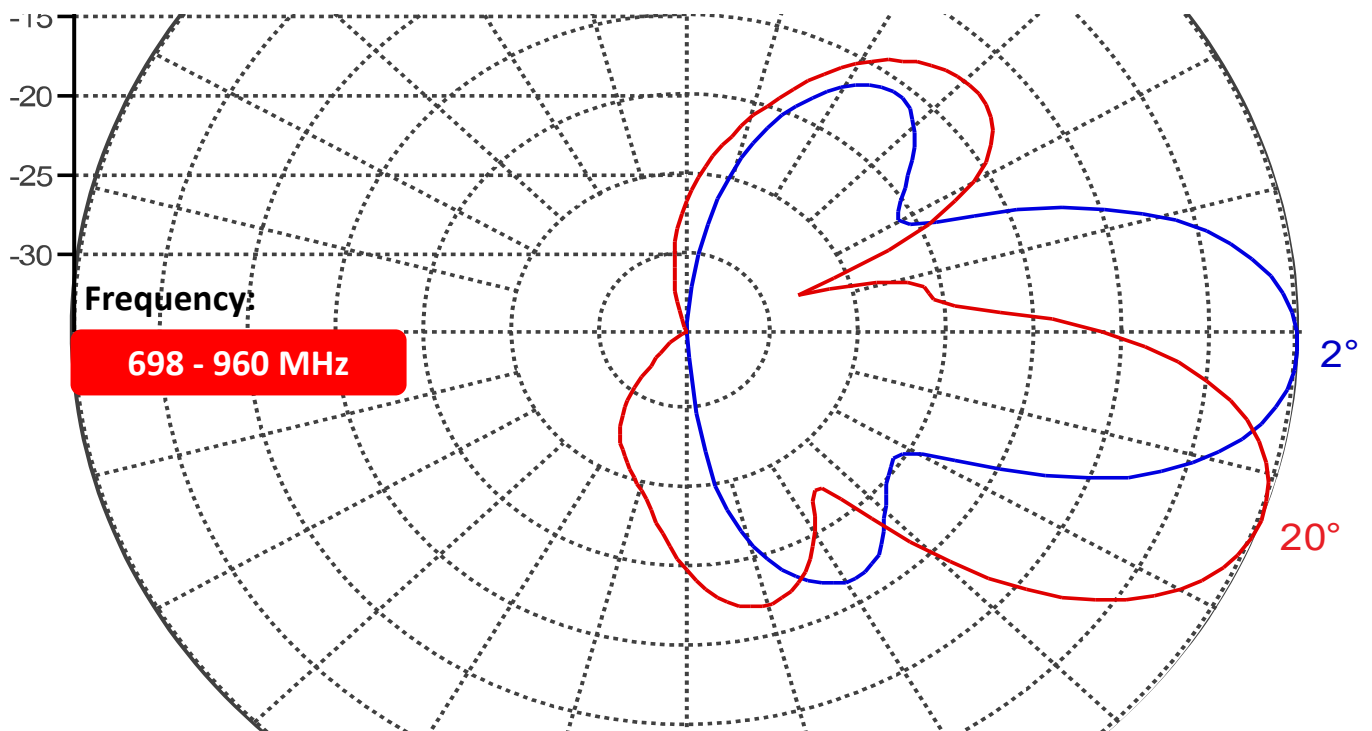


1.20 Low band

1.21 Horizontal pattern

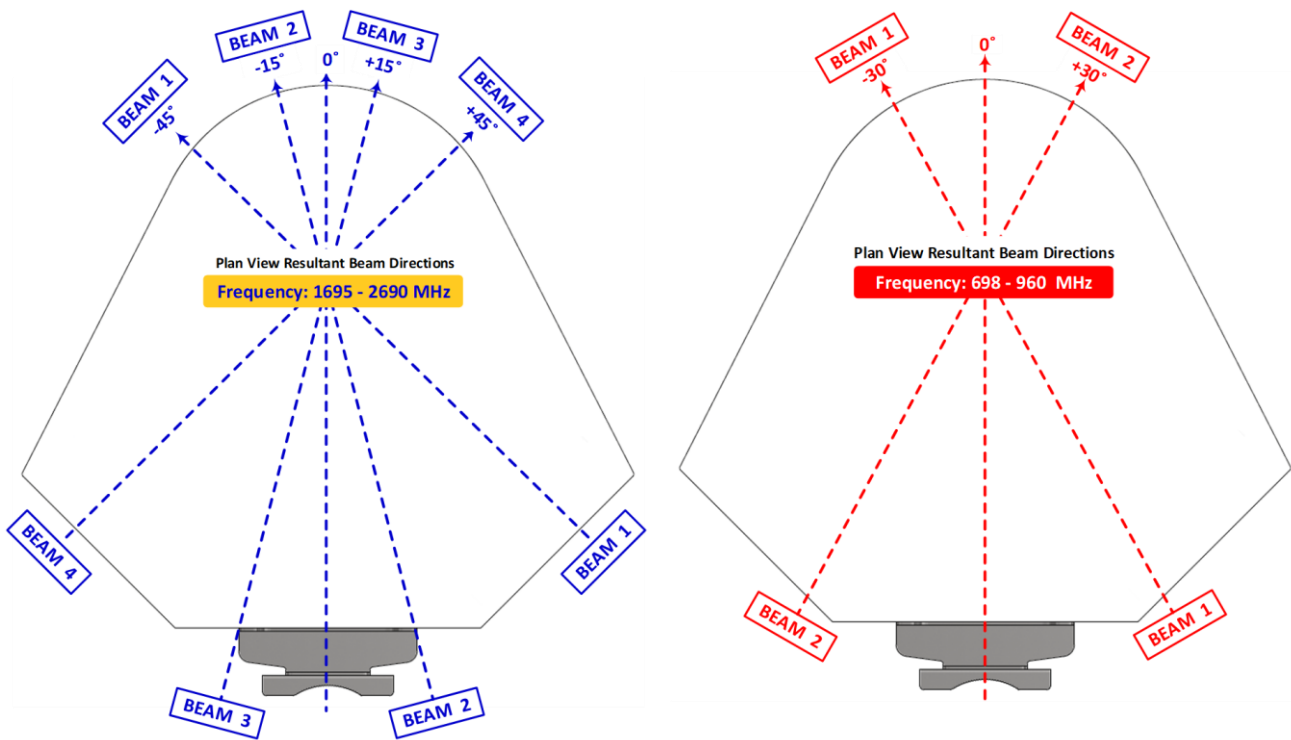


1.22 Vertical pattern



2.00 Beams and connectors

2.10 Plan view resultant beam layout

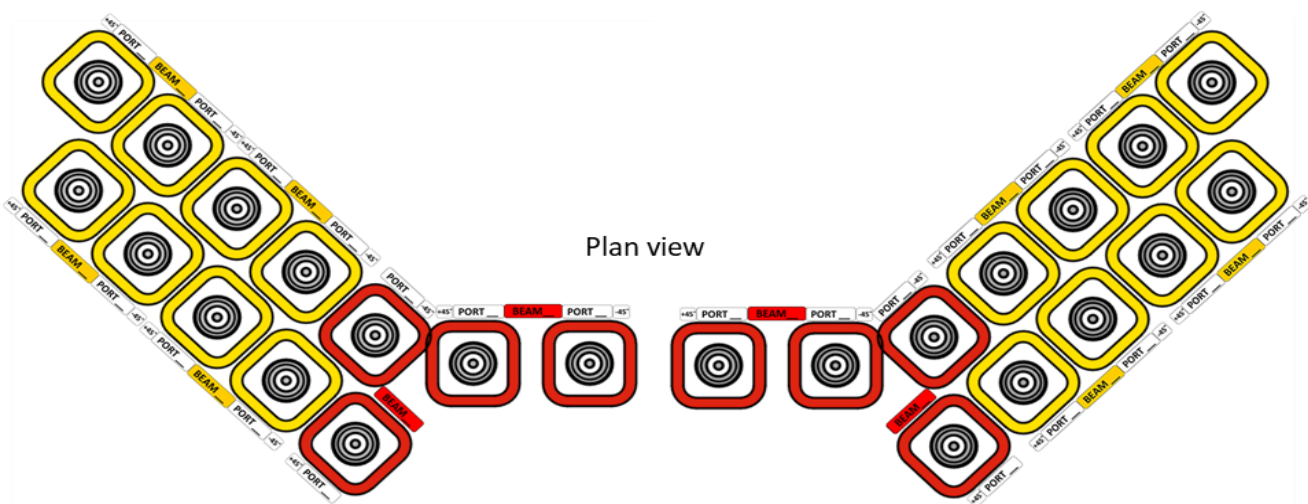


2.20 Connector port table

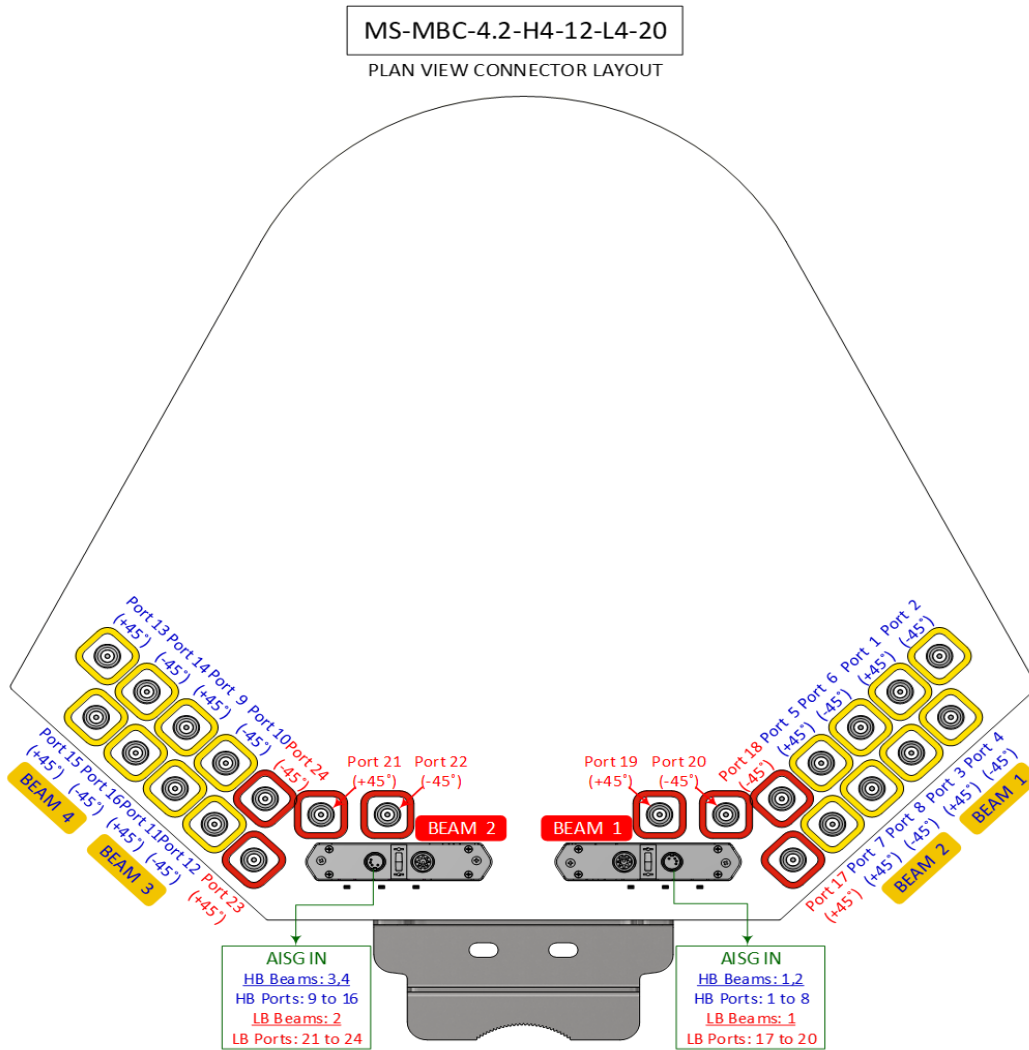
BEAM 4		BEAM 3		BEAM 2		
Port 13 (+45°)	Port 14 (-45°)	Port 9 (+45°)	Port 10 (-45°)	Port 24 (-45°)	Port 21 (+45°)	Port 22 (-45°)
Port 15 (+45°)	Port 16 (-45°)	Port 11 (+45°)	Port 12 (-45°)	Port 23 (+45°)		

BEAM 1		BEAM 2		BEAM 1		
Port 19 (+45°)	Port 20 (-45°)	Port 18 (-45°)	Port 5 (+45°)	Port 6 (-45°)	Port 1 (+45°)	Port 2 (-45°)
		Port 17 (+45°)	Port 7 (+45°)	Port 8 (-45°)	Port 3 (+45°)	Port 4 (-45°)

2.30 Connector detail



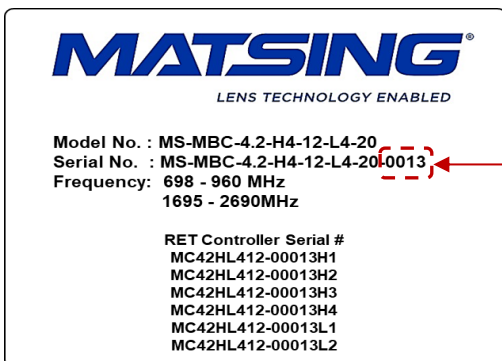
2.40 Connector layout



3.00 RET operations and 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 RET model and serial nos input



17 digits

MC42HL412-00013H1
 MC42HL412-00013H2
 MC42HL412-00013H3
 MC42HL412-00013H4
 MC42HL412-00013L1
 MC42HL412-00013L2

Model s/nos Beams
 5 digits

Delete or add zero (0) in front if the label s/nos. is more or less than 5 digits

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

3.20 Controller display

NO	HDLC	Vendor	Serial Number	Product Number	H/W Version	S/W Version	3GPP	Device	AISG	Connect	Link
1	1	MS	MC42HL412-00013H1	MI12M52C	5.03	5.0.4	6	Single RET	2	Connect	Link
2	2	MS	MC42HL412-00013H2	MI12M52C	5.03	5.0.4	6	Single RET	2	Connect	Link
3	3	MS	MC42HL412-00013H3	MI12M52C	5.03	5.0.4	6	Single RET	2	Connect	Link
4	4	MS	MC42HL412-00013H4	MI12M52C	5.03	5.0.4	6	Single RET	2	Connect	Link
5	5	MS	MC42HL412-00013L1	MI12M52C	5.03	5.0.4	6	Single RET	2	Connect	Link
6	6	MS	MC42HL412-00013L2	MI12M52C	5.03	5.0.4	6	Single RET	2	Connect	Link

3.21 Beam numbers and ports number display

RET ID : MSMC42HL412-00013H1

RET Status and Control

Antenna Information List

NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status
1/1	H1 (Port 1, 2, 3, 4)	MS-MBC42H412L42	MSMBC42H4L4200013	2.0	Normal

RET ID : MSMC42HL412-00013H2

RET Status and Control

Antenna Information List

NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status
1/1	H2 (Port 5, 6, 7, 8)	MS-MBC42H412L42	MSMBC42H4L4200013	2.0	Normal

RET ID : MSMC42HL412-00013H3

RET Status and Control

Antenna Information List

NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status
1/1	H3 (Port 9, 10, 11, 12)	MS-MBC42H412L42	MSMBC42H4L4200013	2.0	Normal

RET ID : MSMC42HL412-00013H4

RET Status and Control

Antenna Information List

NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status
1/1	H4 (Port 13, 14, 15, 16)	MS-MBC42H412L42	MSMBC42H4L4200013	2.0	Normal

RET ID : MSMC42HL412-00013L1

RET Status and Control

Antenna Information List

NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status
1/1	L1 (Port 17, 18, 19, 20)	MS-MBC42H412L42	MSMBC42H4L4200013	2.0	Normal

RET ID : MSMC42HL412-00013L2

RET Status and Control

Antenna Information List

NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status
1/1	L2 (Port 21, 22, 23, 24)	MS-MBC42H412L42	MSMBC42H4L4200013	2.0	Normal

4.00 Bracket installation

4.10 Bolts and nuts / tools

4.11 Bolt and nuts set



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

4.12 Bracket



4.20 Tools requirement

Adjustable spanner



M12 spanner



4.30 Bracket spacing and installation sample

