

INSTRUCTION MANUAL MS-MBA-4.2-H2-L2

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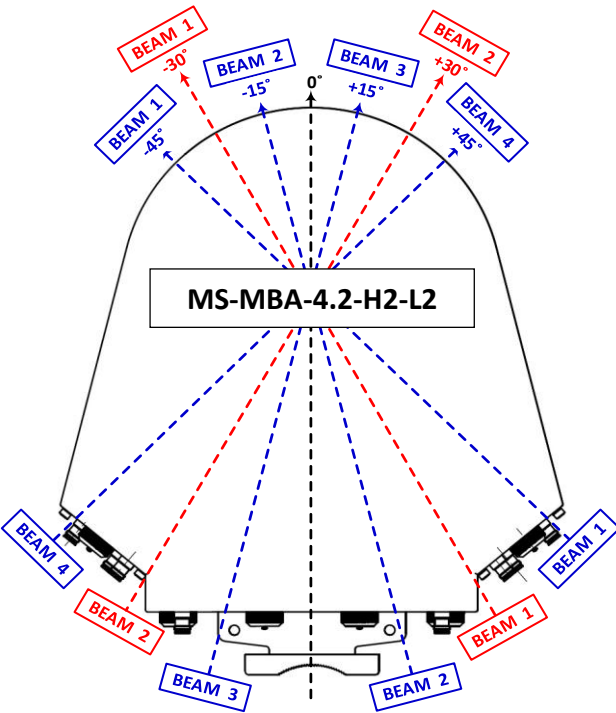
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Revision History:

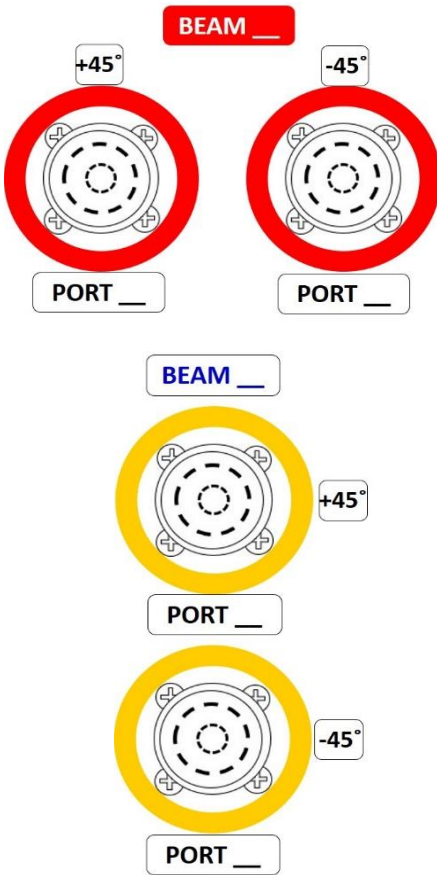
Date	Description	Revised by	Rev nos
05-Oct-20	Indicate the AISG 1 Control HB Beams, AISG 2 Control LB Beams.	Ray	1
08-Oct-20	Include MS-MBA-4.2-H2-T2 & update to newest requirement.	Ray	2
21-Jan-22	Add RET Handle Caution Sticker	Ray	3
05-May-23	Separate T Band & L Band Manual & General Update	Ray	4
30-Nov-23	Include RET Controller Display	Ray	5

1.00 BEAMS & CONNECTORS:

1.10 Plan View Resultant Beam Layout



1.30 Connector Detail

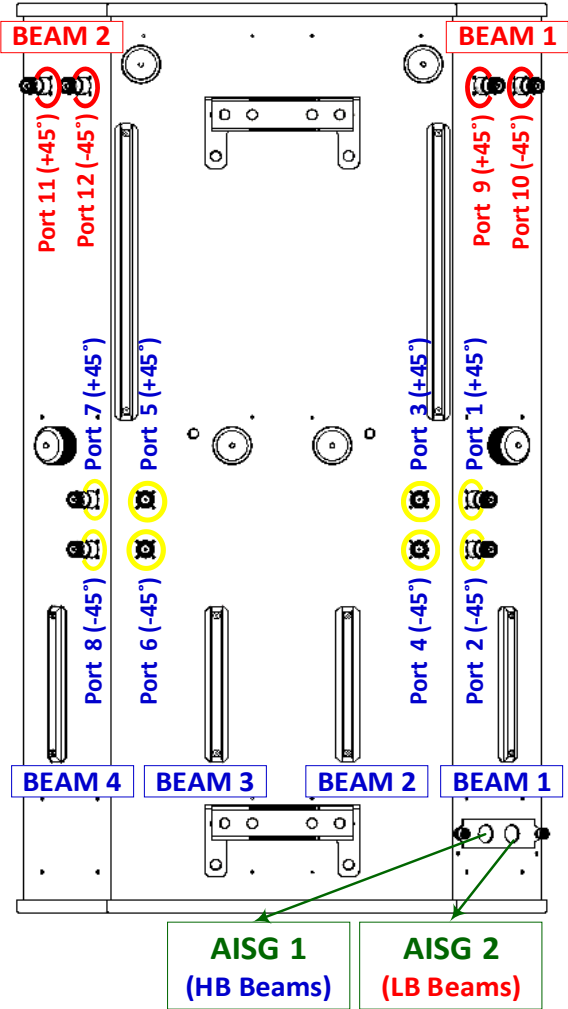


1.20 Connector Ports Table

LOW BAND			
BEAM 2		BEAM 1	
Port 11 (+45°)	Port 12 (-45°)	Port 9 (+45°)	Port 10 (-45°)
HIGH BAND			
BEAM 4	BEAM 3	BEAM 2	BEAM 1
Port 7 (+45°)	Port 5 (+45°)	Port 3 (+45°)	Port 1 (+45°)
Port 8 (-45°)	Port 6 (-45°)	Port 4 (-45°)	Port 2 (-45°)

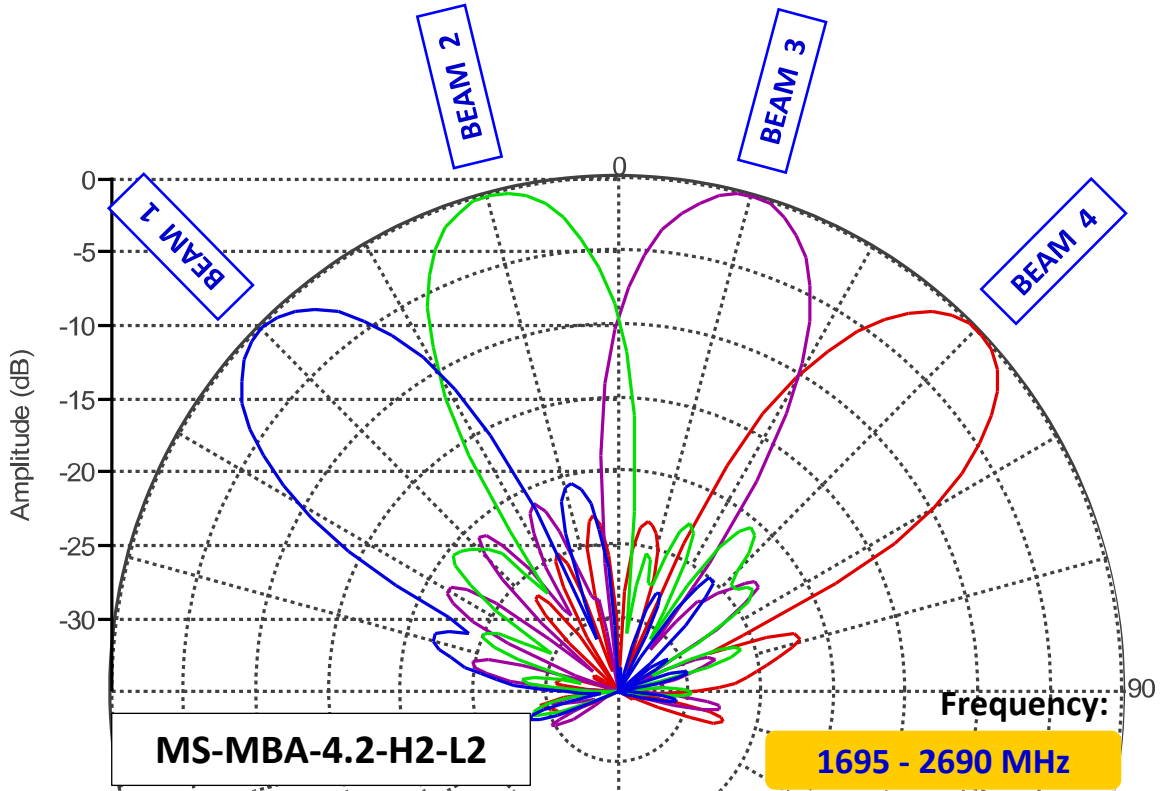
1.40 Connector Layout

MS-MBA-4.2-H2-L2
REAR VIEW CONNECTOR LAYOUT

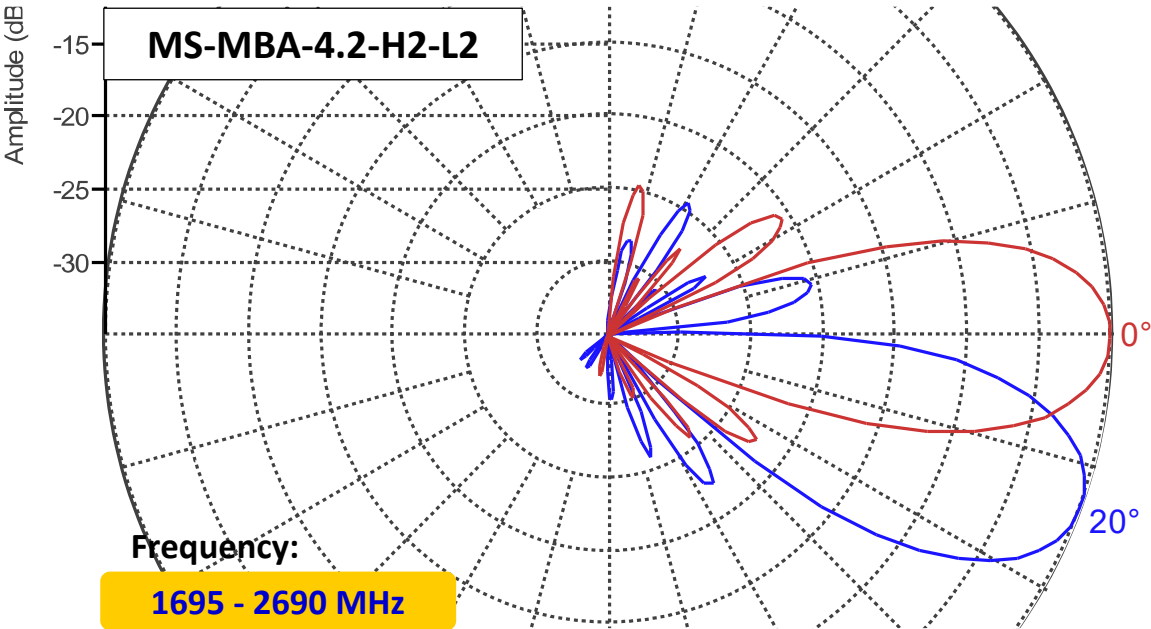


2.00 PATTERN DIAGRAM

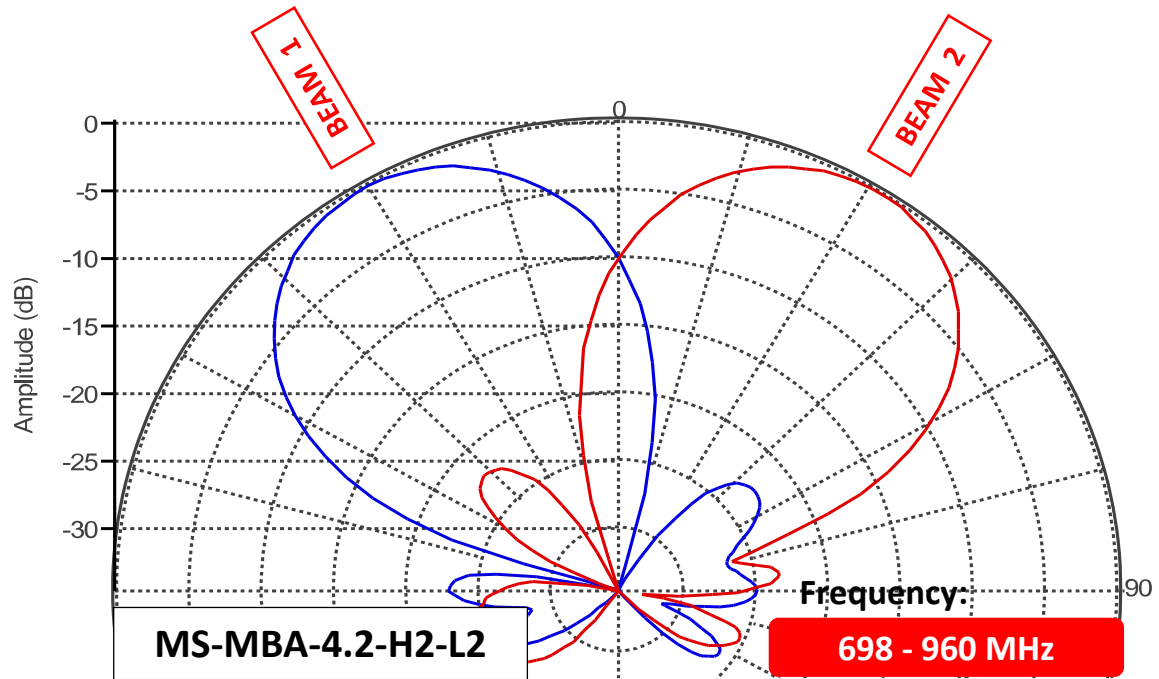
2.10 HB Horizontal Pattern



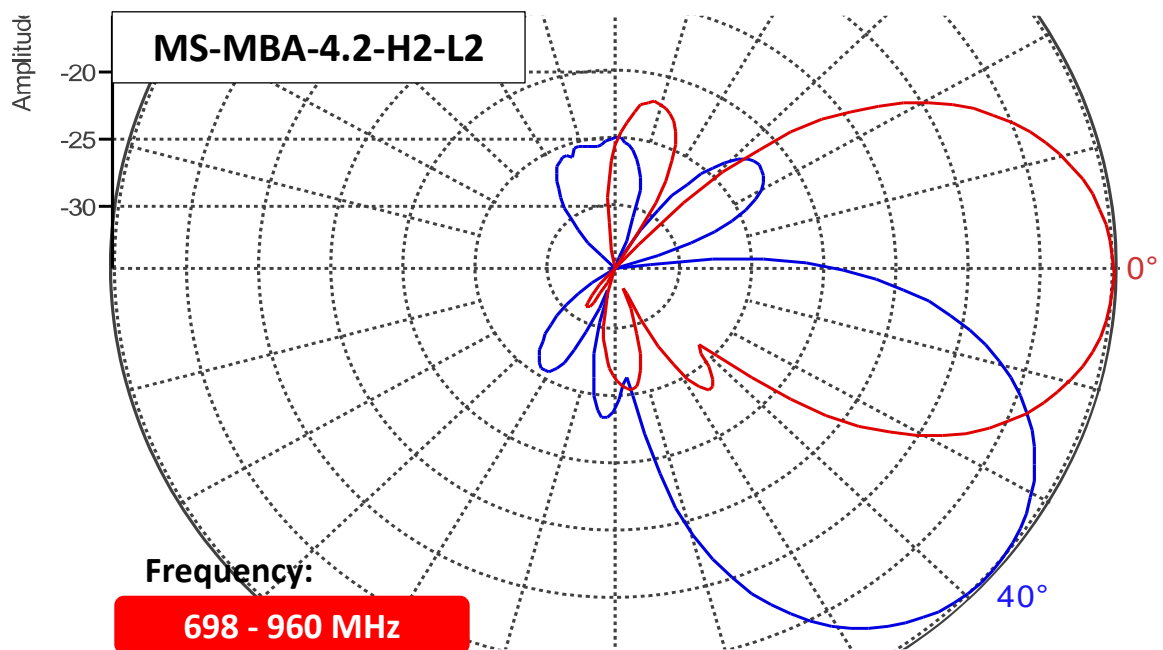
2.20 HB Vertical Pattern



2.30 LB Horizontal Pattern



2.40 LB Vertical Pattern



3.00 RET Controller Display

3.10 RET Discover and Active

ALD List												
NO	HDLC	Vendor	Serial Number	Product Number	H/W Version	S/W Version	3GPP	Device	AISG	Connect	Link	
1	1	MS	MBA42H2L200035AMM	ACS-RMC20	1.00	1.17	6	Multi RET	2	 Connect	 Link	
2	2	MS	MBA42H2L200035BMM	ACS-RMC20	1.00	1.13a	6	Multi RET	2	 Connect	 Link	

Model/Serial no./AISG In

3.20 AISG In-1 Operations Display

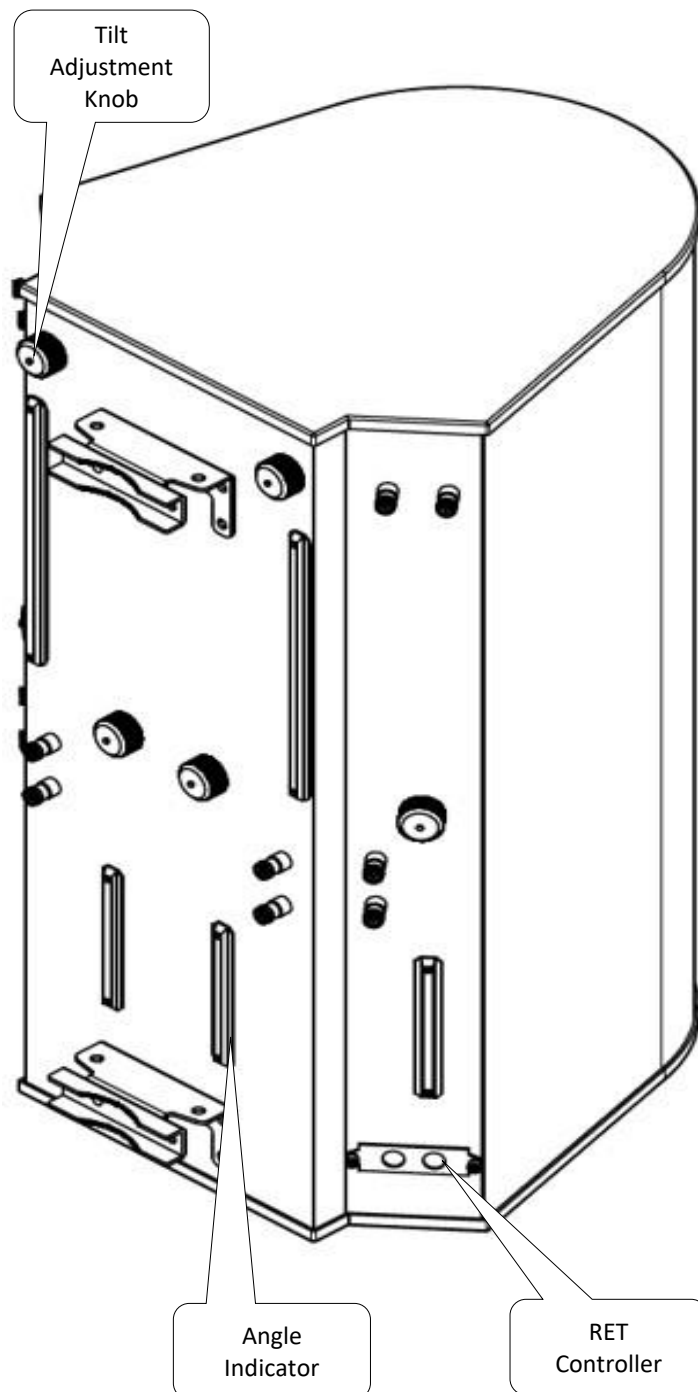
RET Tilt Window						
RET ID : MSMBA42H2L200035AMM						
RET Status and Control						
Antenna Information List						
NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status	
1/4	HB Beam 1 (Ports 1, 2)	MBA-4.2-H2-L2	MSMBA4.2H2L200035	0.0	Normal	
2/4	HB Beam 2 (Ports 3, 4)	MBA-4.2-H2-L2	MSMBA4.2H2L200035	0.0	Normal	
3/4	HB Beam 3 (Ports 5, 6)	MBA-4.2-H2-L2	MSMBA4.2H2L200035	0.0	Normal	
4/4	HB Beam 4 (Ports 7, 8)	MBA-4.2-H2-L2	MSMBA4.2H2L200035	0.0	Normal	

3.30 AISG In-2 Operations Display

RET Tilt Window						
RET ID : MSMBA42H2L200035BMM						
RET Status and Control						
Antenna Information List						
NO	Sector ID	Ant Model	Ant Serial	Current Tilt	Status	
1/2	LB Beam 1 (Ports 9, 10)	MBA-4.2-H2-L2	MSMBA4.2H2L200036	0.0	Normal	
2/2	LB Beam 2 (Ports 11, 12)	MBA-4.2-H2-L2	MSMBA4.2H2L200036	0.0	Normal	

4.00 MANUAL TILT ADJUSTMENT

1	The MBA antenna come in RET mode as default, but if needed can also be manually adjusted. To do so, please unscrew the waterproof cap behind the element whose tilt is to be adjusted.
2	By Default the knob is on engaged mode, pull out the handle for manual tilt adjustment, turn the handle to change the tilt.
3	When done, push the handle back in, screw the waterproof cap back to the position.



Unscrew/Screw the cap for tilt adjustment process



Engaged with internal RET motor position



Pull handle out to disengaged RET for tilt adjustment



5.00 BRACKET INSTALLATION

5.10 Bolts & Nuts Requirements

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

5.11 Bolts & Nuts



5.12 Bracket



5.20 Tools Requirement

5.21 Adjustable Spanner



5.22 M12 Spanner



5.30 Bracket Spacing & Installation Sample

