

Date	Prepared by	Approved by	Document nos	Revision
28 Dec 2021	Ray Ling	Pavel	MS-MBA-3.2-IM-001	4

Applicable Model:

MS-MBA-3.2-H4-L4 (&) MS-MBA-3.2-H4-T4

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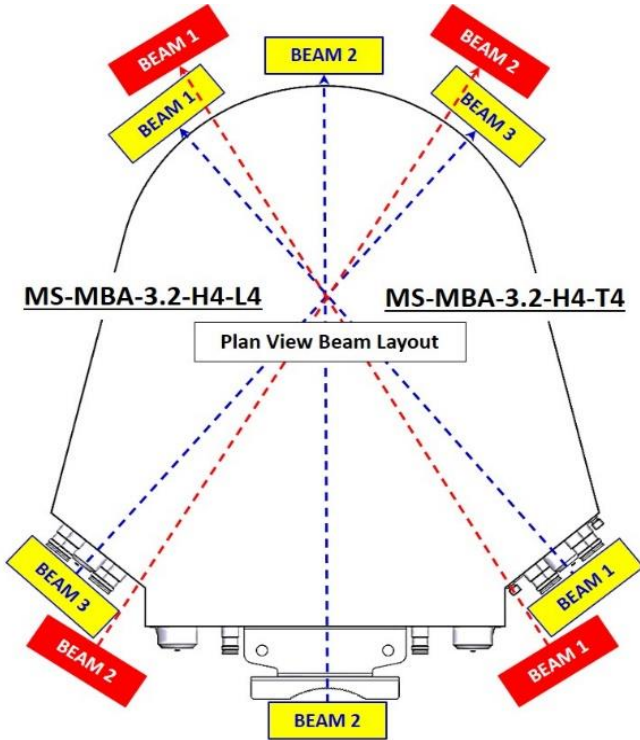
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Revision History:

Date	Description	Revised by	Revision nos.
06-Jul-20	To include MS-MBA-3.2-H4-T4 and update all to newest requirement.	Ray Ling	1
05-Oct-20	Indicate the AISG 1 Control HB Beams, AISG 2 Control LB Beams.	Ray Ling	2
07-Jun-21	Revised HB frequency to 1710 - 2690MHz, include bracket installation procedure.	Ray Ling	3
28-Dec-21	Add RET Handle Caution sticker	Ray Ling	1

1.00 BEAMS & CONNECTORS:

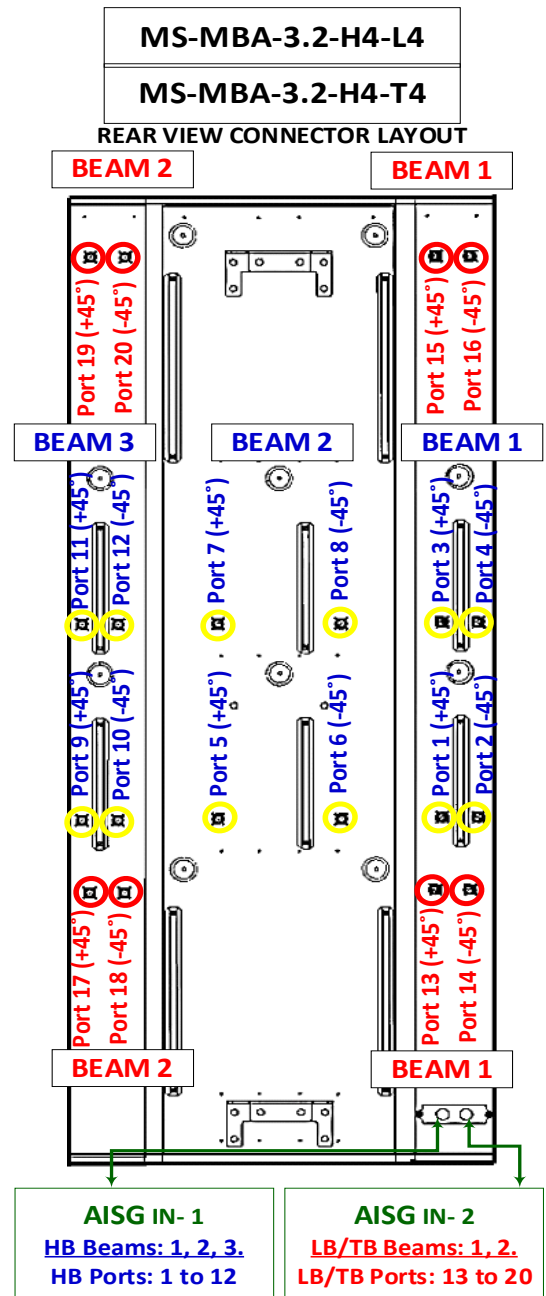
1.10 Plan View Resultant Beam Layout



1.20 Connector Ports Table

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

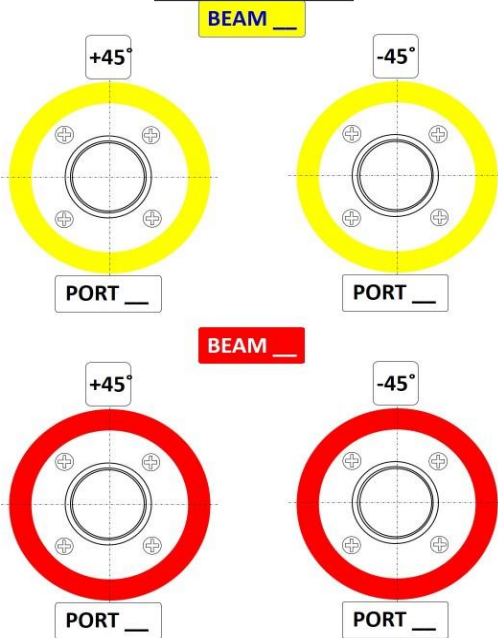
1.40 Connector Layout



1.30 Connector Detail

MS-MBA-3.2-H4-L4
MS-MBA-3.2-H4-T4

Connector Detail

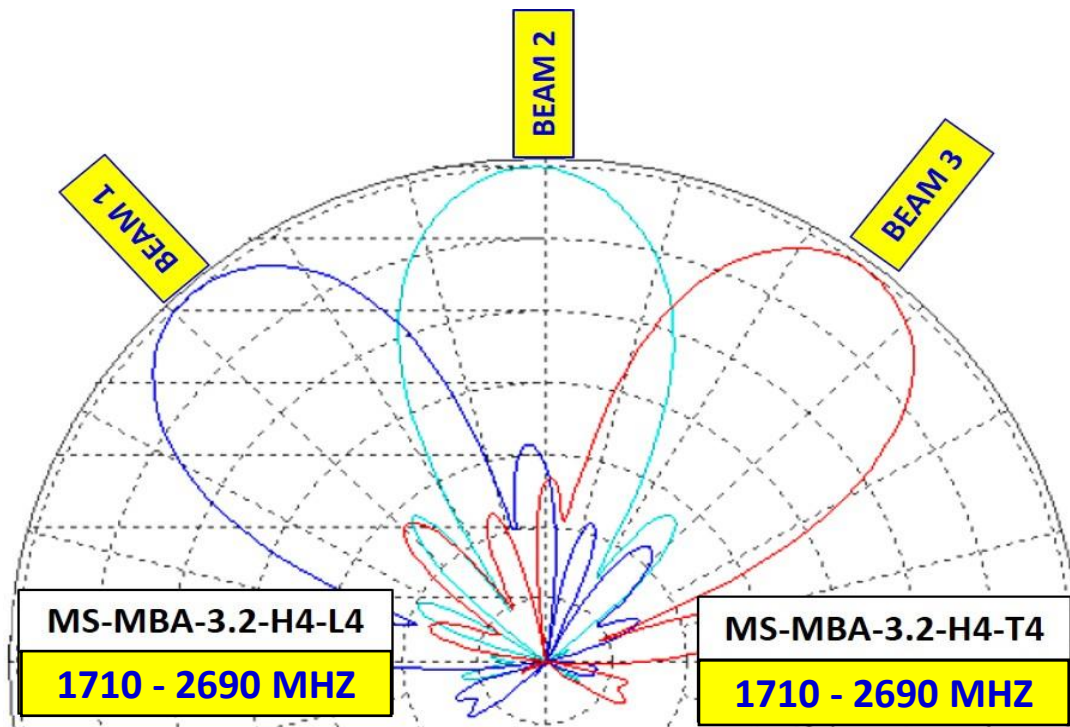


2.00 PATTERN DIAGRAM

2.10 High Band:

2.11 MS-MBA-3.2-H4-L4 (Frequency: 1710 - 2690 MHz)

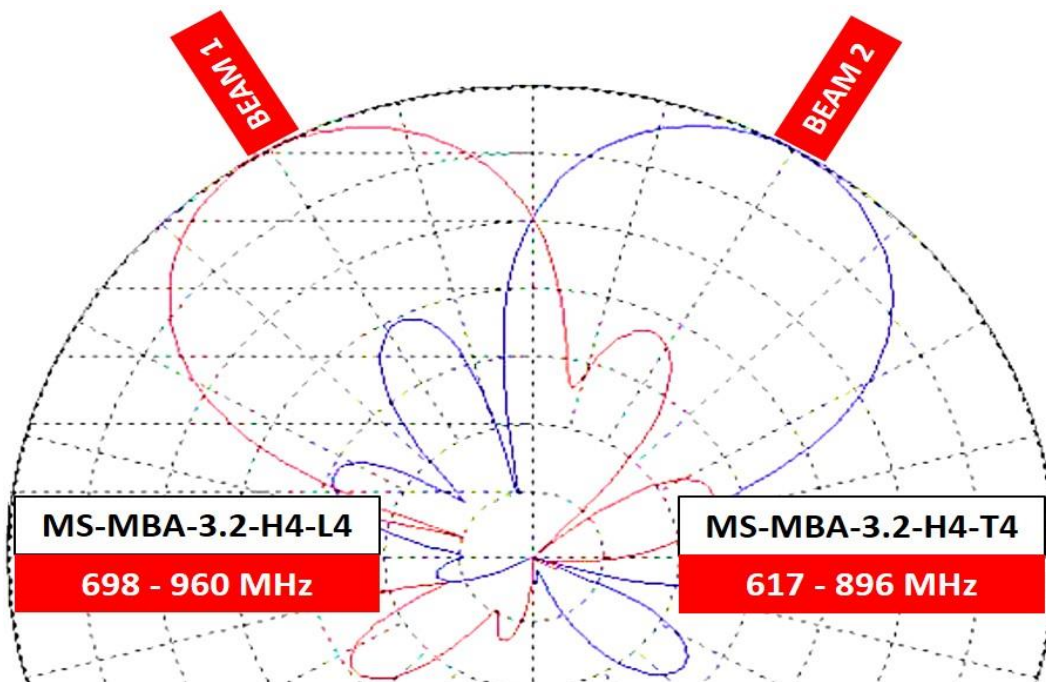
2.12 MS-MBA-3.2-H4-T4 (Frequency: 1710 - 2690 MHz)



2.20 Low Band:

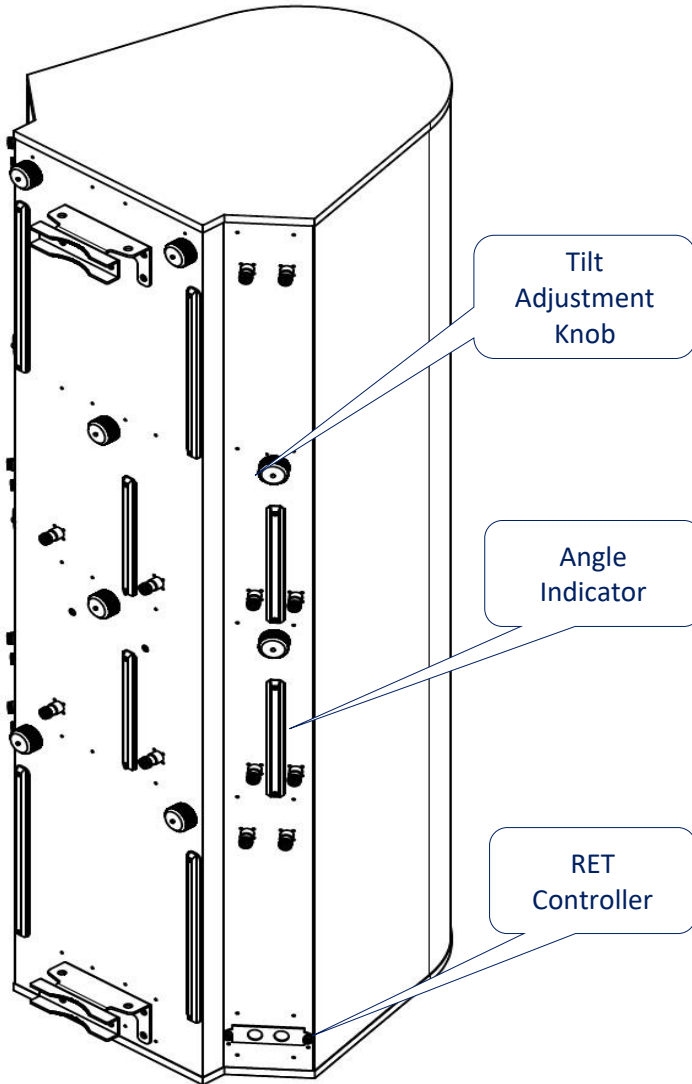
2.21 MS-MBA-3.2-H4-L4 (Frequency: 698 - 960 MHz)

2.22 MS-MBA-3.2-H4-T4 (Frequency: 617 - 896 MHz)



3.00 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

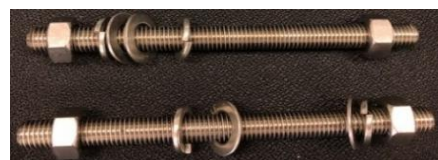


4.00 BRACKET INSTALLATION

4.10 Bolts & Nuts Requirements

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

4.11 Bolts & Nuts



4.12 Bracket



4.20 Tools Requirement

4.21 Adjustable Spanner



4.22 M12 Spanner



4.30 Bracket Spacing & Installation Sample

