

Date	Prepared by	Approved by	Document nos	Revision
17 Aug 2020	Ray Ling	Pavel	MS-MBA-32-84-001	0

Applicable Model:

MS-MBA-3.2-H8-L4, MS-MBA-3.2-H8-T4

TABLE OF CONTENTS:

1.00 BEAMS & CONNECTORS:

- 1.10 Plan View Resultant Beam Layout
- 1.20 Connector Ports Table
- 1.30 Connector Detail
- 1.40 Connector Layout

2.00 PATTERN DIAGRAM

- 2.10 High Band:
 - 2.11 MS-MBA-3.2-H8-L4 (Frequency: 1695 - 2690 MHz)
 - 2.12 MS-MBA-3.2-H8-T4 (Frequency: 1695 - 2690 MHz)
- 2.20 Low Band / T Band:
 - 2.21 MS-MBA-3.2-H8-L4 (Frequency: 698 - 960 MHz)
 - 2.22 MS-MBA-3.2-H8-T4 (Frequency: 617 - 896 MHz)

3.00 MANUAL TILT ADJUSTMENT

4.00 BRACKET, BOLT & NUTS REQUIREMENT

- 4.10 Bolts & Nuts
- 4.20 Bracket
- 4.30 Installation Sample (MBA Model's mostly identical installation)

5.00 TOOLS

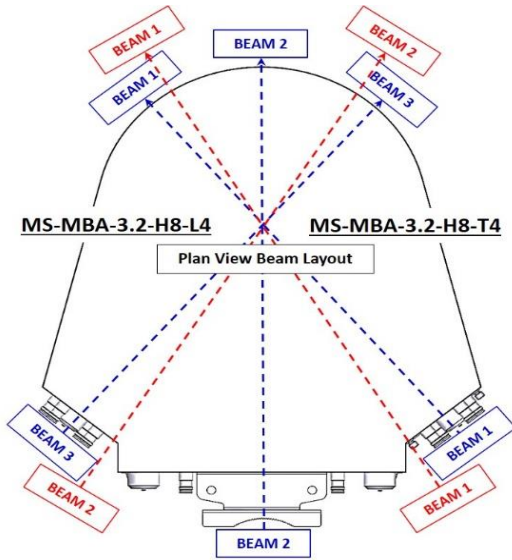
- 5.10 Adjustable Spanner
- 5.20 M12 Spanner

Revision History:

Date	Description	Revised by	Revision nos.

1.00 BEAMS & CONNECTORS:

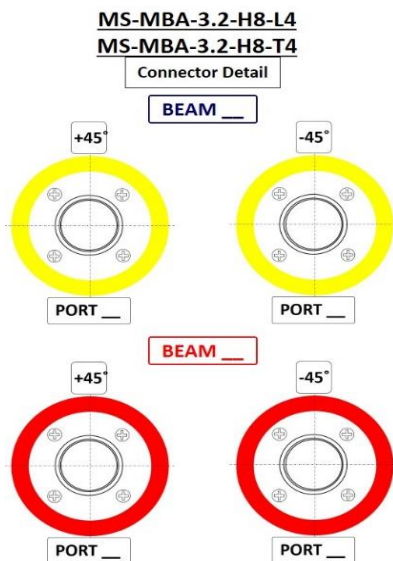
1.10 Plan View Resultant Beam Layout



1.20 Connector Ports Table

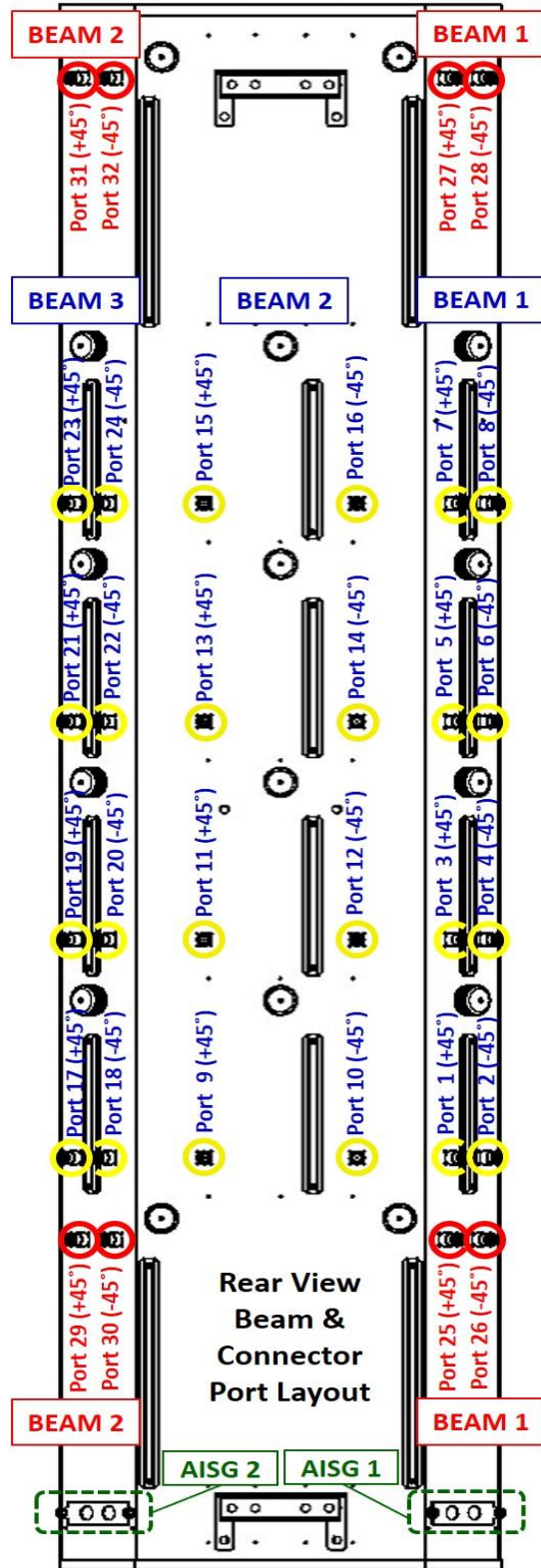
MS-MBA-3.2-H8-L4/MBA-3.2-H8-T4 Connector Ports Table					
BEAM 2				BEAM 1	
Port 31 (+45°)	Port 32 (-45°)			Port 27 (+45°)	Port 28 (-45°)
BEAM 3		BEAM 2		BEAM 1	
Port 23 (+45°)	Port 24 (-45°)	Port 15 (+45°)	Port 16 (-45°)	Port 7 (+45°)	Port 8 (-45°)
Port 21 (+45°)	Port 22 (-45°)	Port 13 (+45°)	Port 14 (-45°)	Port 5 (+45°)	Port 6 (-45°)
Port 19 (+45°)	Port 20 (-45°)	Port 11 (+45°)	Port 12 (-45°)	Port 3 (+45°)	Port 4 (-45°)
Port 17 (+45°)	Port 18 (-45°)	Port 9 (+45°)	Port 10 (-45°)	Port 1 (+45°)	Port 2 (-45°)
BEAM 2				BEAM 1	
Port 29 (+45°)	Port 28 (-45°)			Port 25 (+45°)	Port 26 (-45°)

1.30 Connector Detail



1.40 Connector Layout

MS-MBA-3.2-H8-L4 MS-MBA-3.2-H8-T4 REAR VIEW CONNECTOR LAYOUT

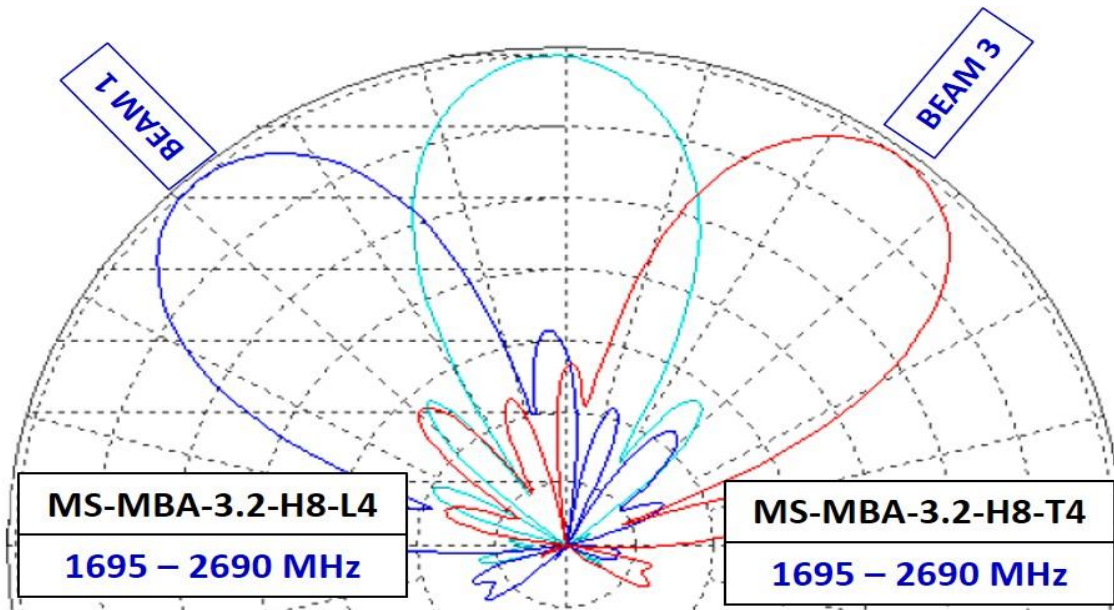


2.00 PATTERN DIAGRAM

2.10 High Band:

2.11 MS-MBA-3.2-H8-L4 (Frequency: 1695 - 2690 MHz)

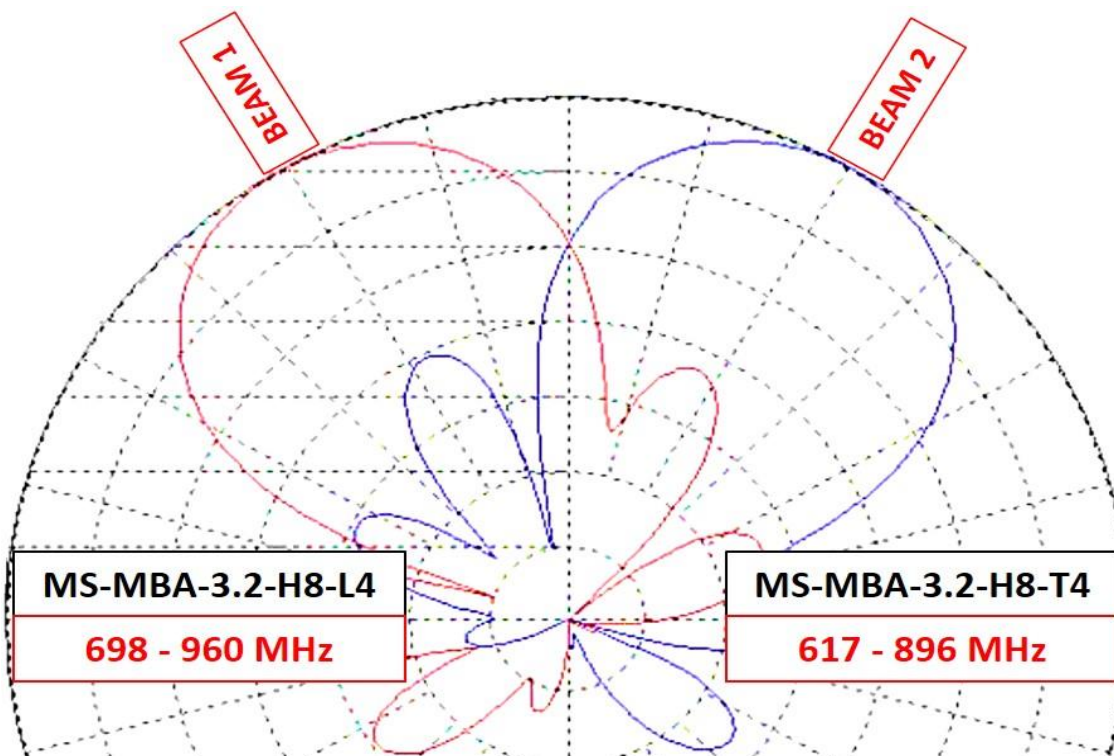
2.12 MS-MBA-3.2-H8-T4 (Frequency: 1695 - 2690 MHz)



2.20 Low Band / T Band:

2.21 MS-MBA-3.2-H8-L4 (Frequency: 698 - 960 MHz)

2.22 MS-MBA-3.2-H8-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.

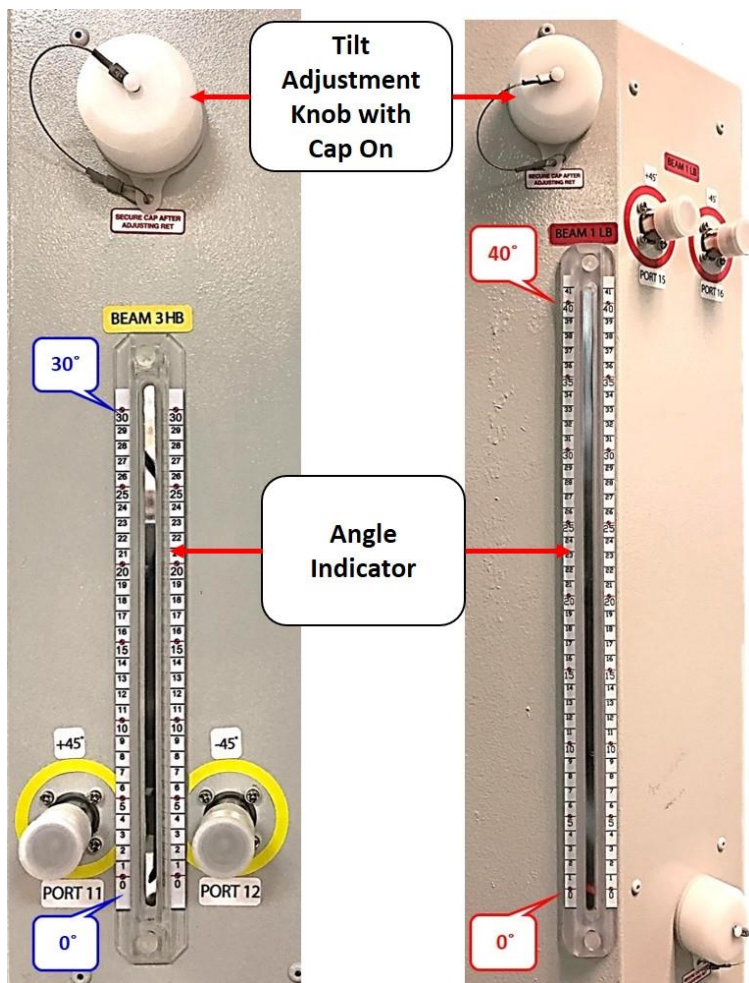
Unscrew/Screw the cap for tilt adjustment process



Engaged with internal RET Motor position



Pull knob out to disengaged RET for tilt adjustment



4.00 BRACKET, BOLT & NUTS REQUIREMENT

Model	1. Bolts		2. Nuts		3. Bracket
	Size	Qty	Size	Qty	Qty
All MBA's	M12 x 160mm	4	M12	8	2

4.10 Bolts & Nuts



4.20 Bracket



4.30 Installation Sample (MBA Model's mostly identical installation)



5.00 TOOLS

5.10 Adjustable Spanner



5.20 M12 Spanner

