

Date	Prepared by	Approved by	Document nos	Rev
8 Oct 2020	Ray Ling	Patrick Yeo	MBA-4.2-H2LT2-IM-001	2

**INSTRUCTION MANUAL MS-MBA-4.2-H2-L2 / MBA-4.2-H2-T2**

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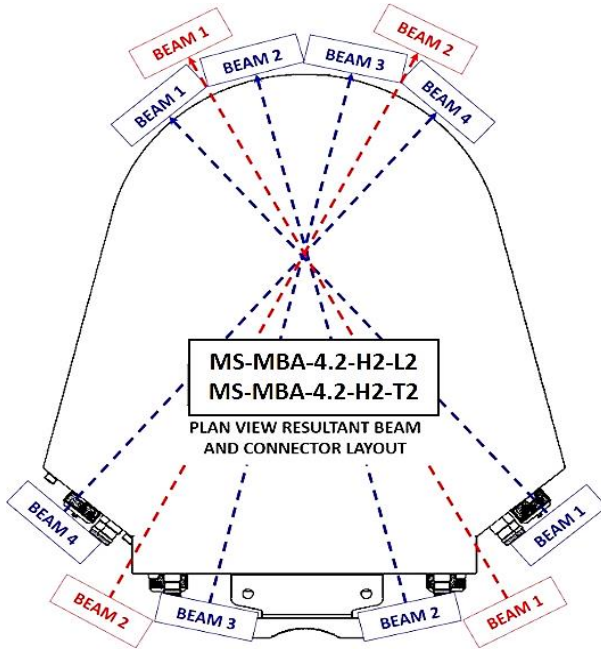
- 5.10 Adjustable Spanner
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**Revision History:**

Date	Description	Revised by	Revision nos.
05-Oct-20	Indicate the AISG 1 Control HB Beams, AISG 2 Control LB Beams.	Ray Ling	1
08-Oct-20	To include MS-MBA-4.2-H2-T2 and update all to newest requirement.	Ray Ling	2

# 1.00 BEAMS & CONNECTORS:

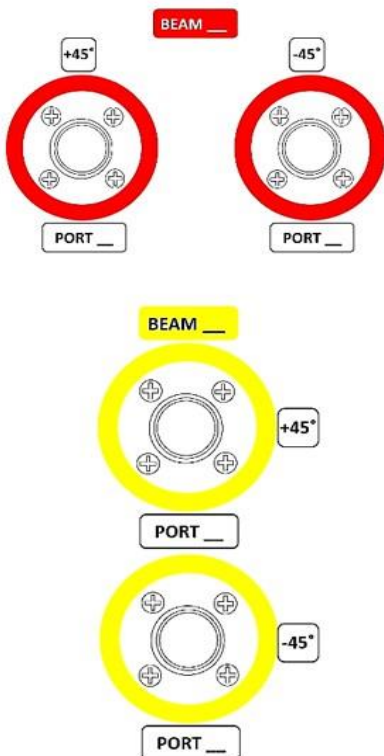
## 1.10 Plan View Resultant Beam Layout



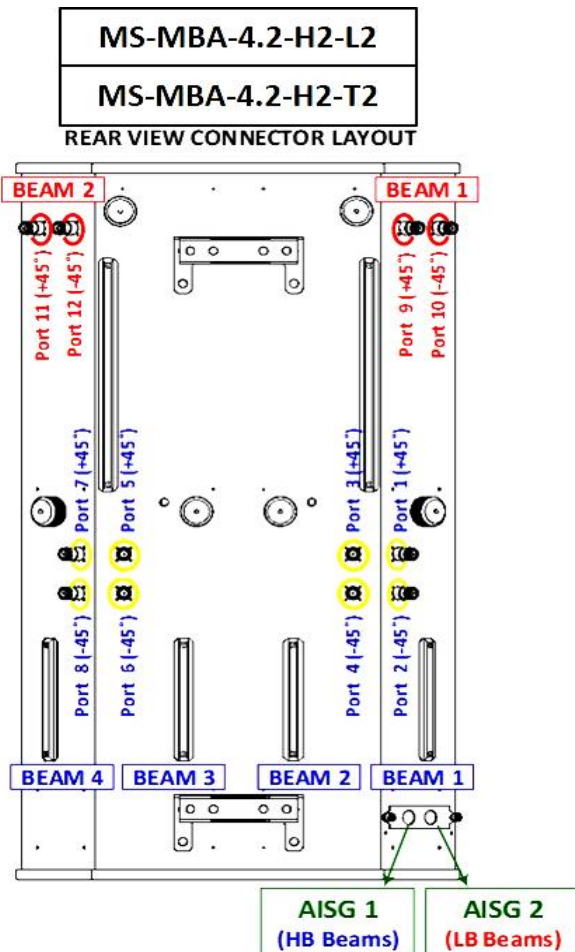
## 1.20 Connector Ports Table

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°)

## 1.30 Connector Detail



## 1.40 Connector Layout

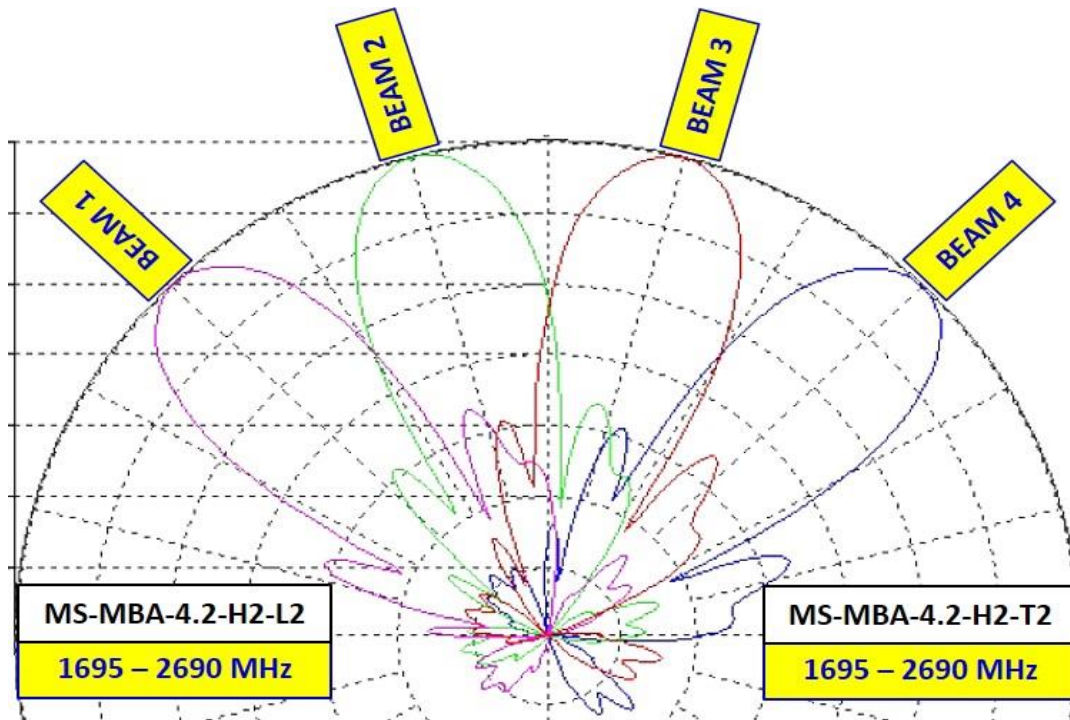


## 2.00 PATTERN DIAGRAM

### 2.10 High Band

2.11 MS-MBA-4.2-H2-L2 (Frequency: 1695 - 2690MHz)

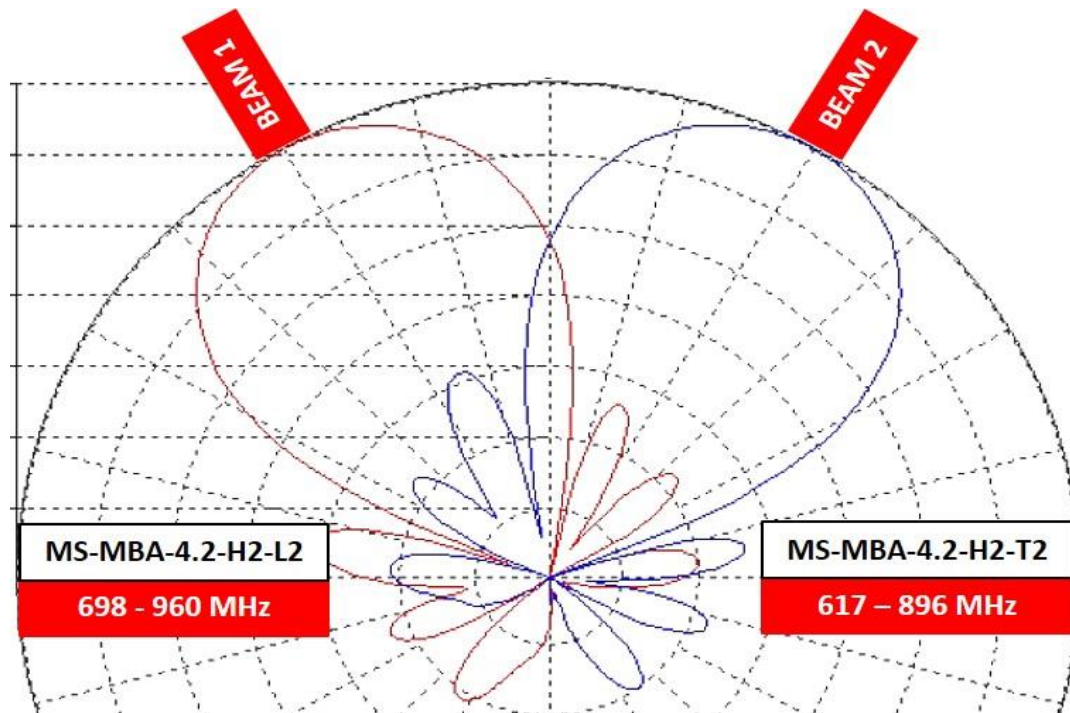
2.12 MS-MBA-4.2-H2-T2 (Frequency: 1695 - 2690MHz)



### 2.20 Low Band:

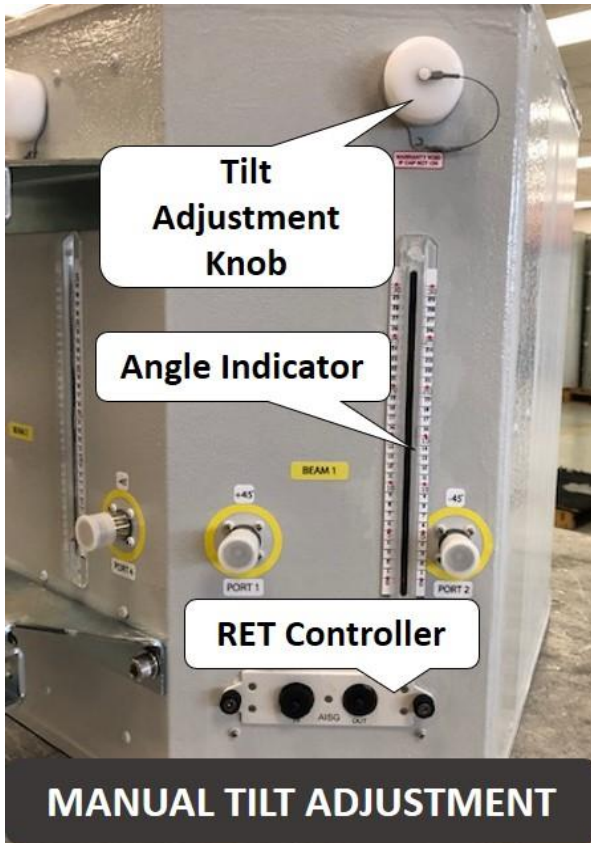
2.21 MS-MBA-4.2-H2-L2 (Frequency: 698 - 960 MHz)

2.22 MS-MBA-4.2-H2-T2 (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.



### 4.00 BRACKET, BOLT & NUTS REQUIREMENT

nos	Model Apply	Bracket	Bolt		Nuts	
		Qty	Size	Qty	Size	Qty
1	MBA-2, MBA-8, MBA-3-H4, MBA-4-H4 MBA-3.2-H4-L4, MBA-2-L2, 6SH-LAA MBA-4.2-H2-L2/T2	2	M12 x 160mm	4	M12	8

#### 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

