

Date	Prepared by	Approved by	Document nos	Rev
30 Apr 2021	Ray Ling	Pavel	MBA-3.3-LAA2-F4-IM-001	2

INSTRUCTION MANUAL MS-MBA-3.3-LAA2-F4

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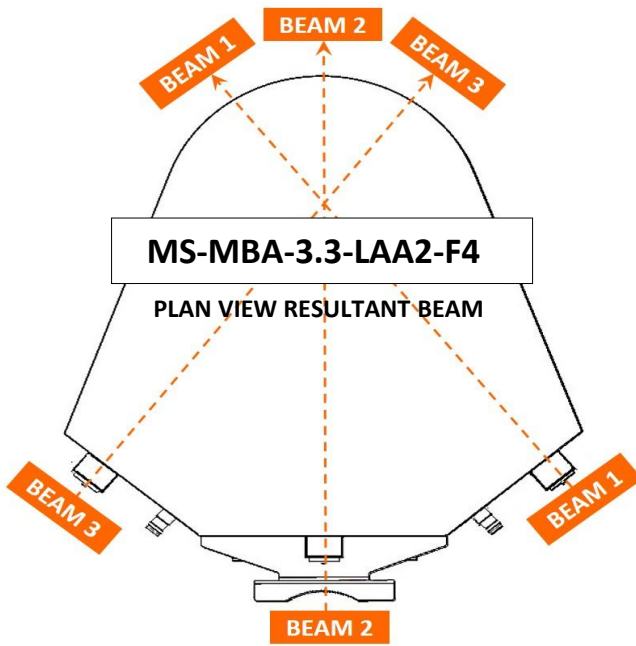
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Revision History:

Date	Description	Revised by	Revision nos.
05-08-20	Revised the LAA Band Connector size to 4.3-10 type.	Ray Ling	1
30-Apr-21	Revised the backshell layout	Ray Ling	2

1.00 BEAMS & CONNECTORS:

1.10 Plan View Resultant Beam Layout

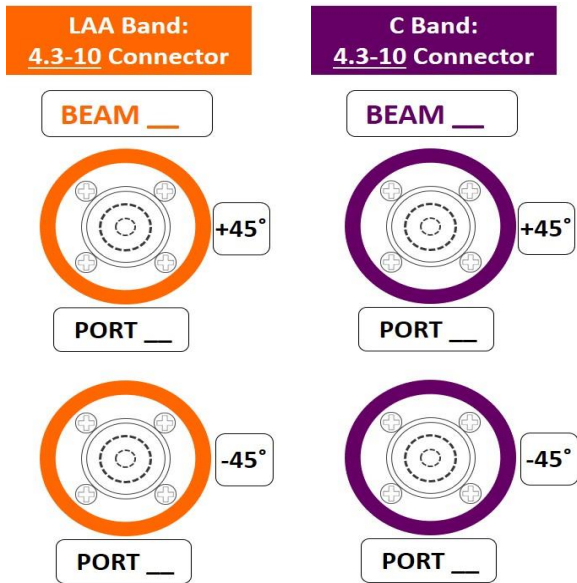


1.20 Connector Ports Table

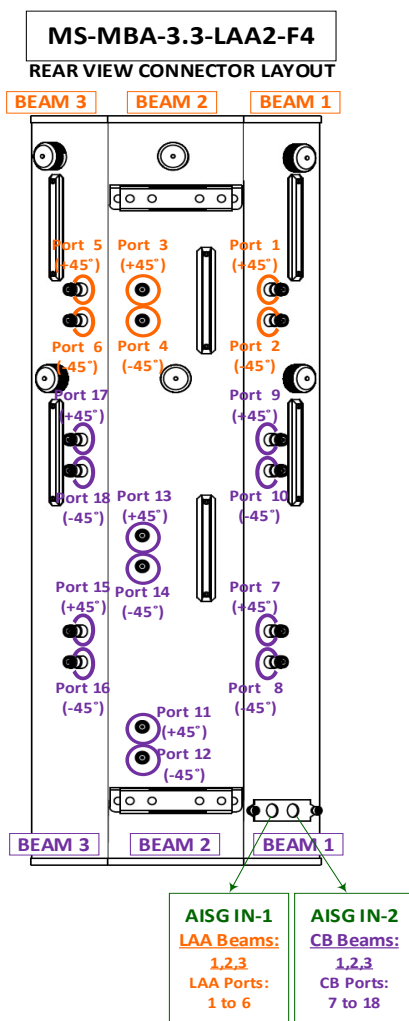
MBA-3.3-LAA2-F4		
Connector Table		
BEAM 3	BEAM 2	BEAM 1
Port 5 (+45°)	Port 3 (+45°)	Port 1 (+45°)
Port 6 (-45°)	Port 4 (-45°)	Port 2 (-45°)
BEAM 3	BEAM 2	BEAM 1
Port 17 (+45°)	Port 13 (+45°)	Port 9 (+45°)
Port 18 (-45°)	Port 14 (-45°)	Port 10 (-45°)
Port 15 (+45°)	Port 11 (+45°)	Port 7 (+45°)
Port 16 (-45°)	Port 12 (-45°)	Port 8 (-45°)

1.30 Connector Detail

MS-MBA-3.3-LAA2-F4
REAR VIEW CONNECTOR DETAIL

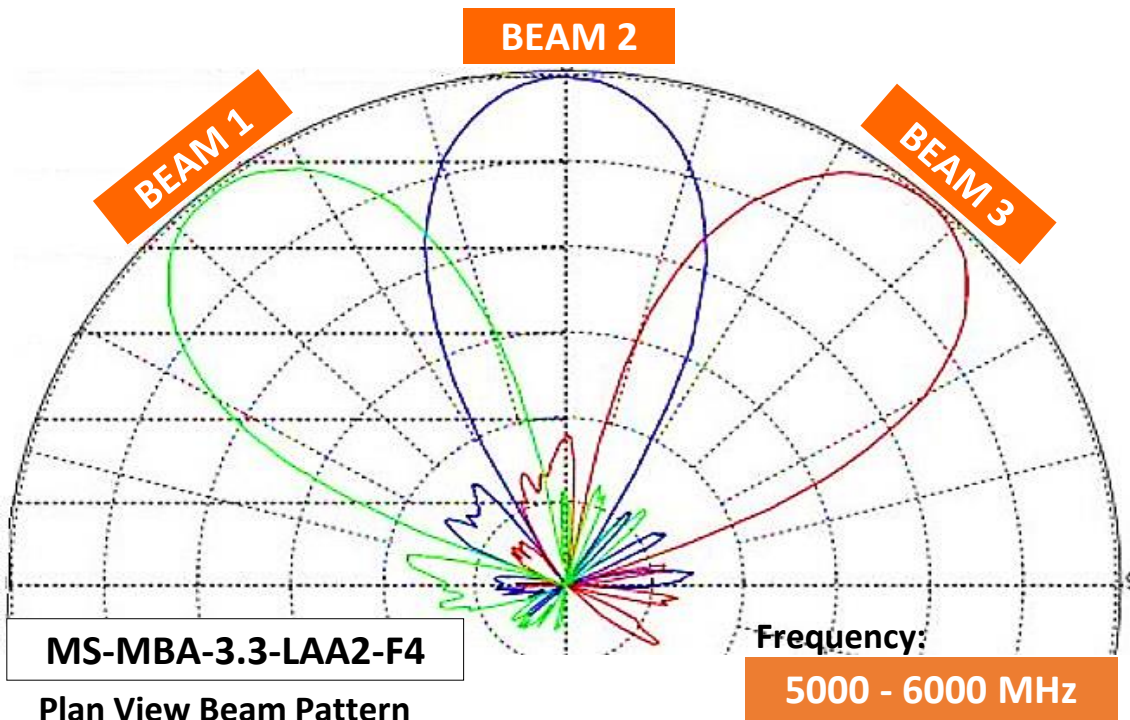


1.40 Connector Layout

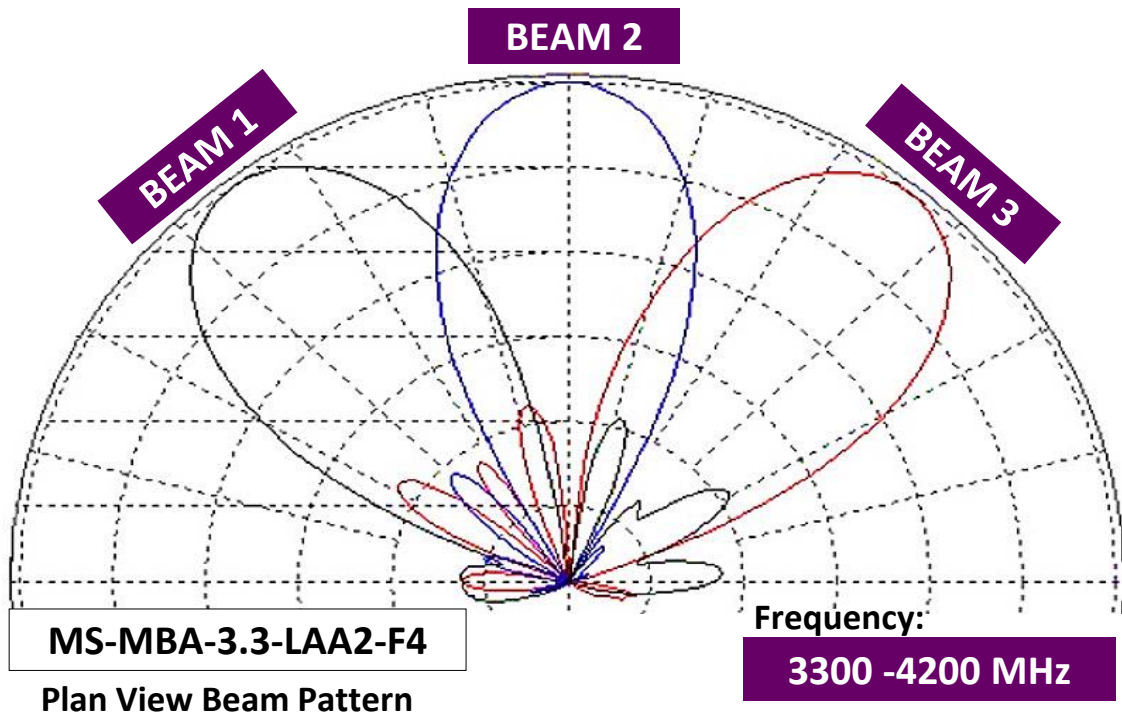


2.00 PATTERN DIAGRAM

2.10 LAA Band (Frequency: 5000 - 6000 MHz)

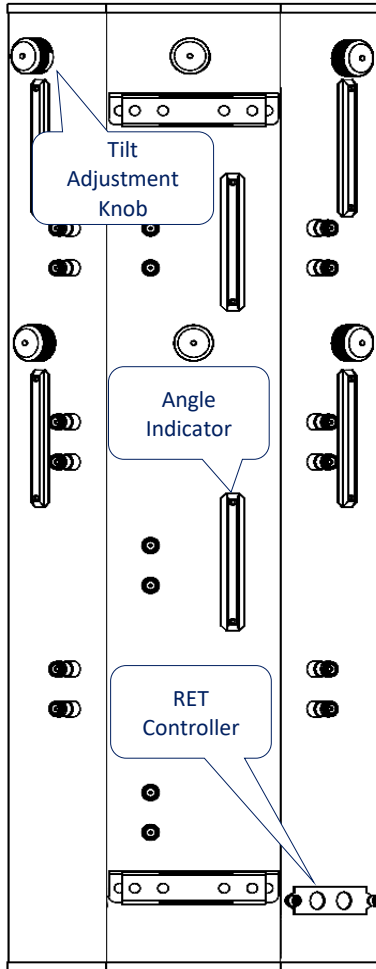


2.20 F Band (Frequency: 3300 - 4200 MHz)



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.



Engaged with internal RET motor position



Unscrew/ Screw the cap for tilt adjustment process



Pull knob out to disengaged RET for tilt adjustment



4.00 BRACKET INSTALLATION

4.10 Bolts & Nuts Requirements

nos	Model Apply	Bracket	Bolts		Nuts	
		Qty	Size	Qty	Size	Qty
1	All MBA's Antennas	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

