



LENS TECHNOLOGY ENABLED

MS-MBA-4.4.2-F4-H4-L4

(VS Version) Instruction Manual

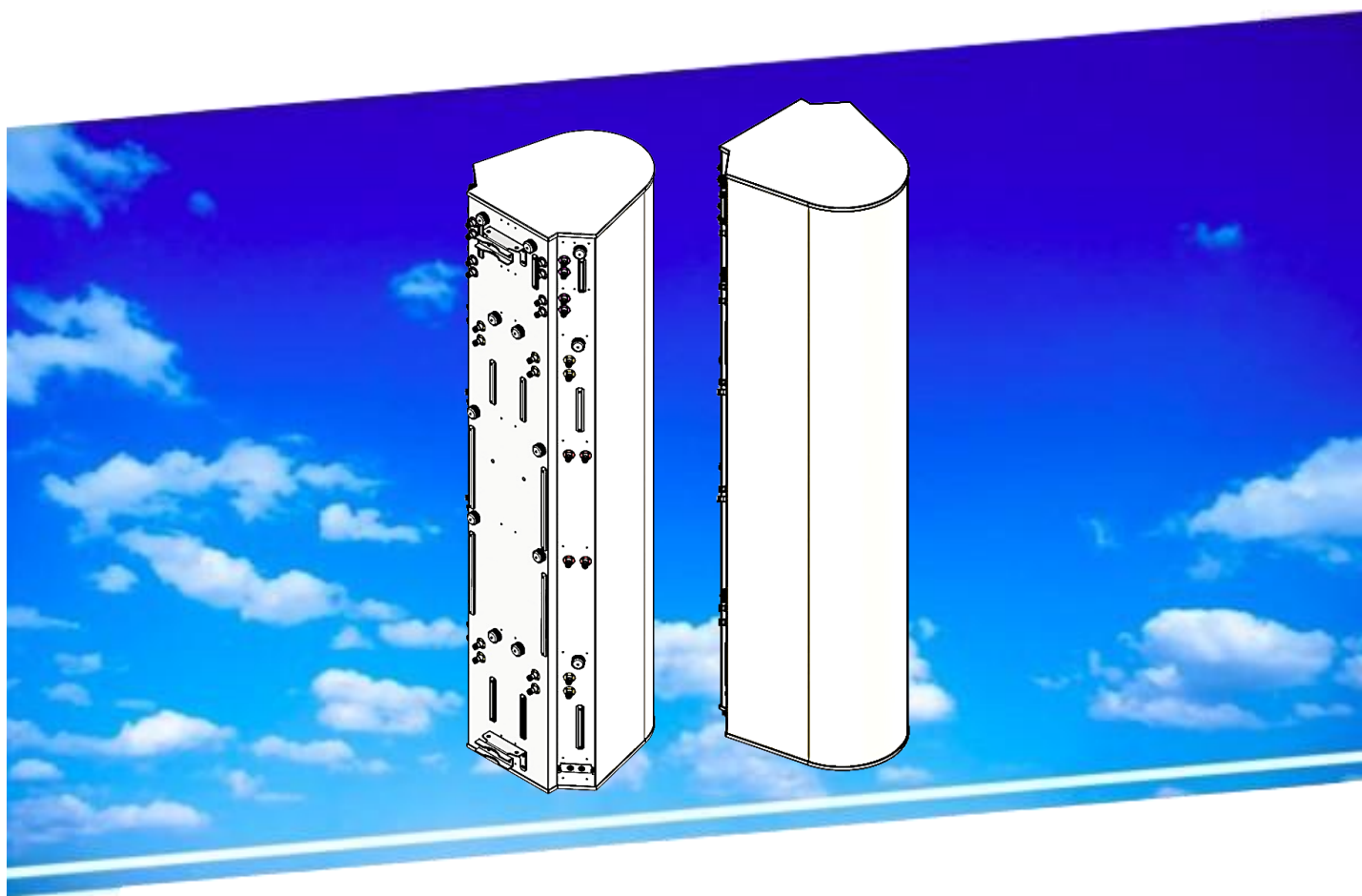


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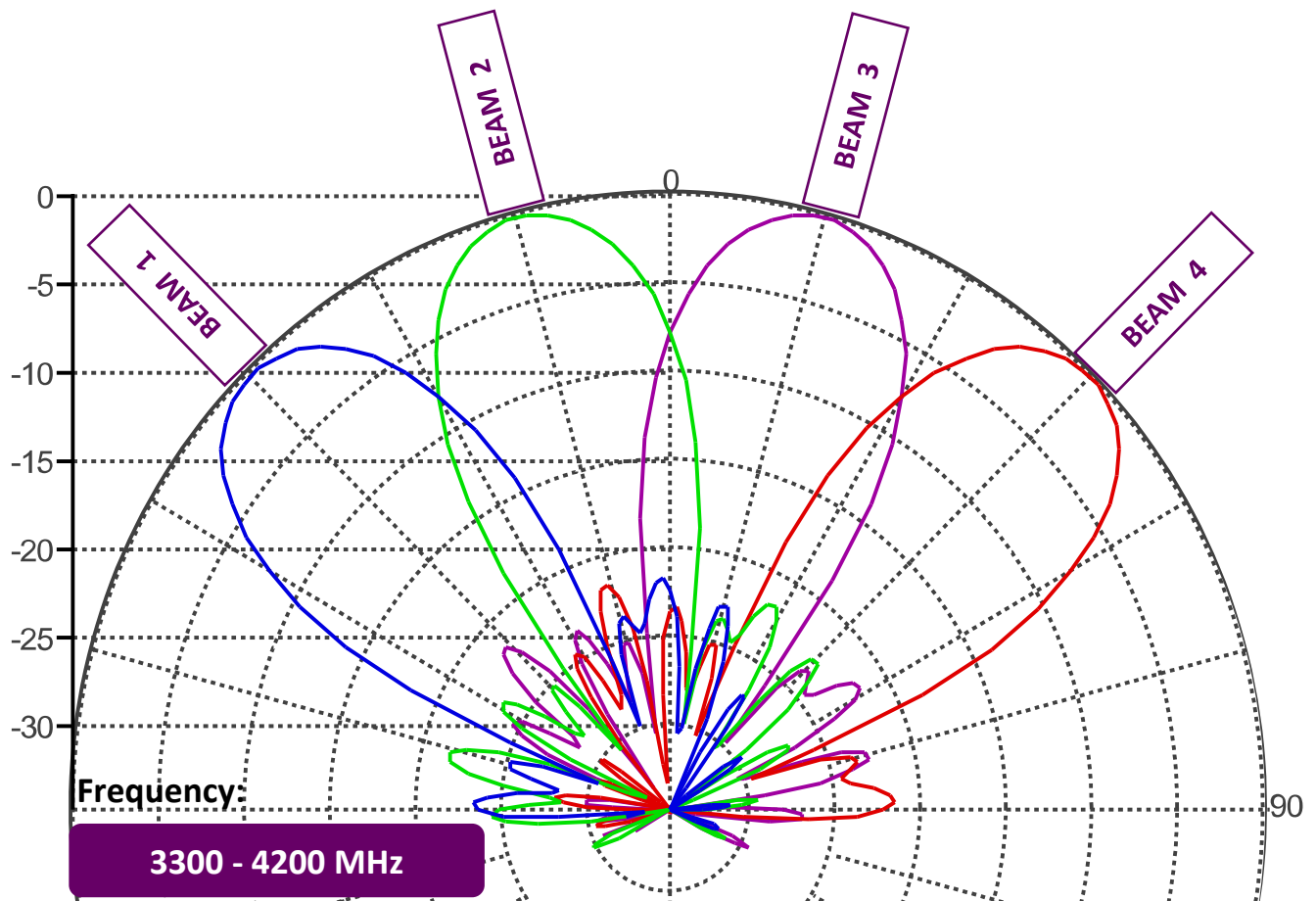
Revision History:

<u>Date</u>	<u>Description</u>	<u>Rev By</u>	<u>Check By</u>	<u>Rev no</u>
19-Aug-2025	Initial Release	RL	Pavel	0

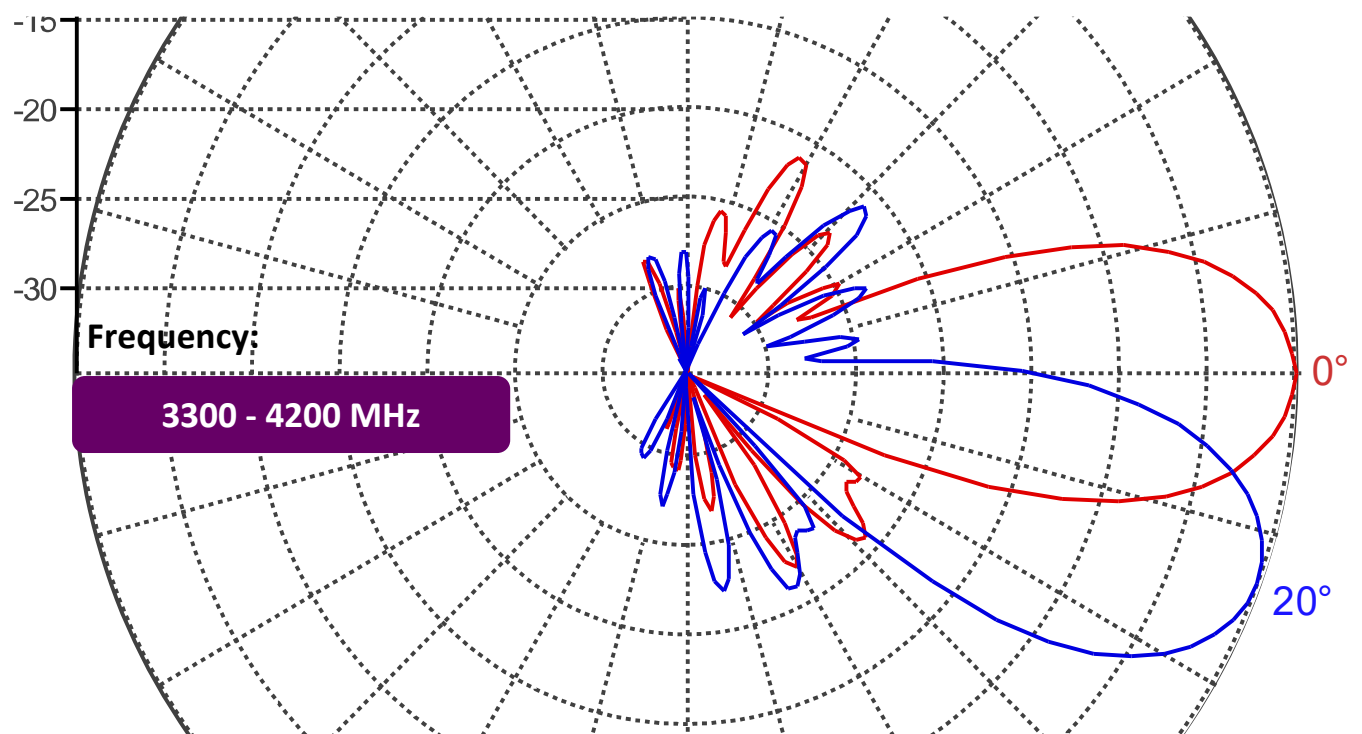
1.00 PATTERN DIAGRAM

1.10 F-Band

1.11 Horizontal Pattern

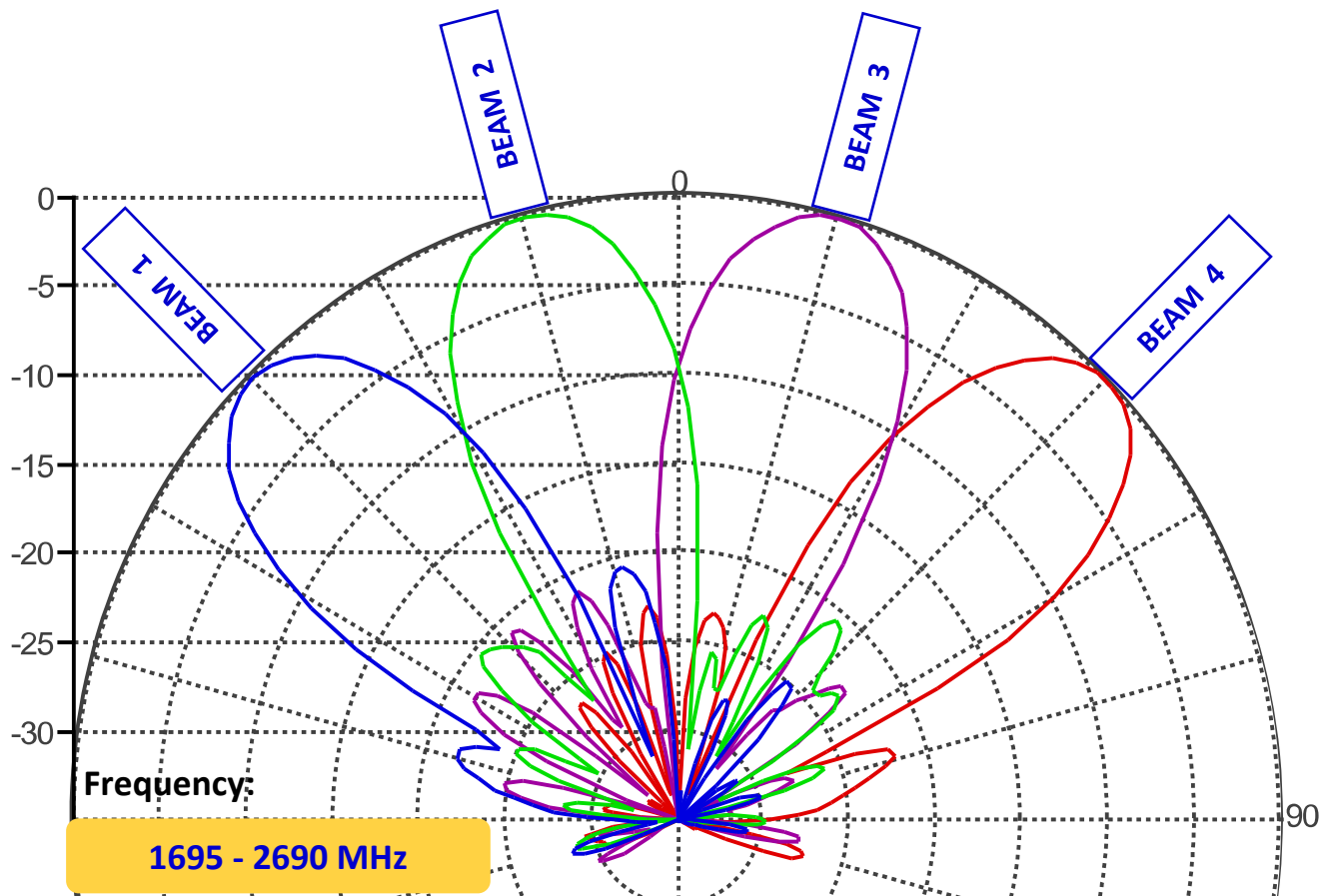


1.12 Vertical Pattern

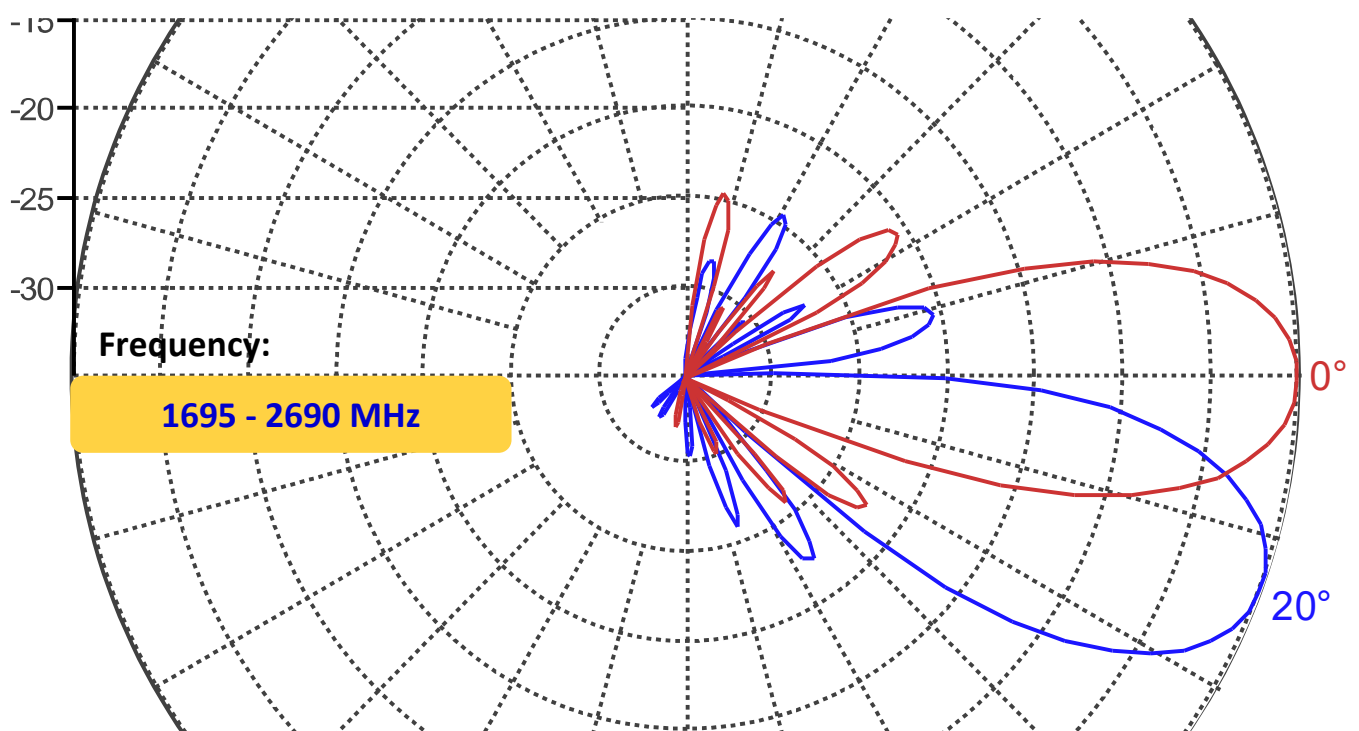


1.20 High Band

1.21 Horizontal Pattern

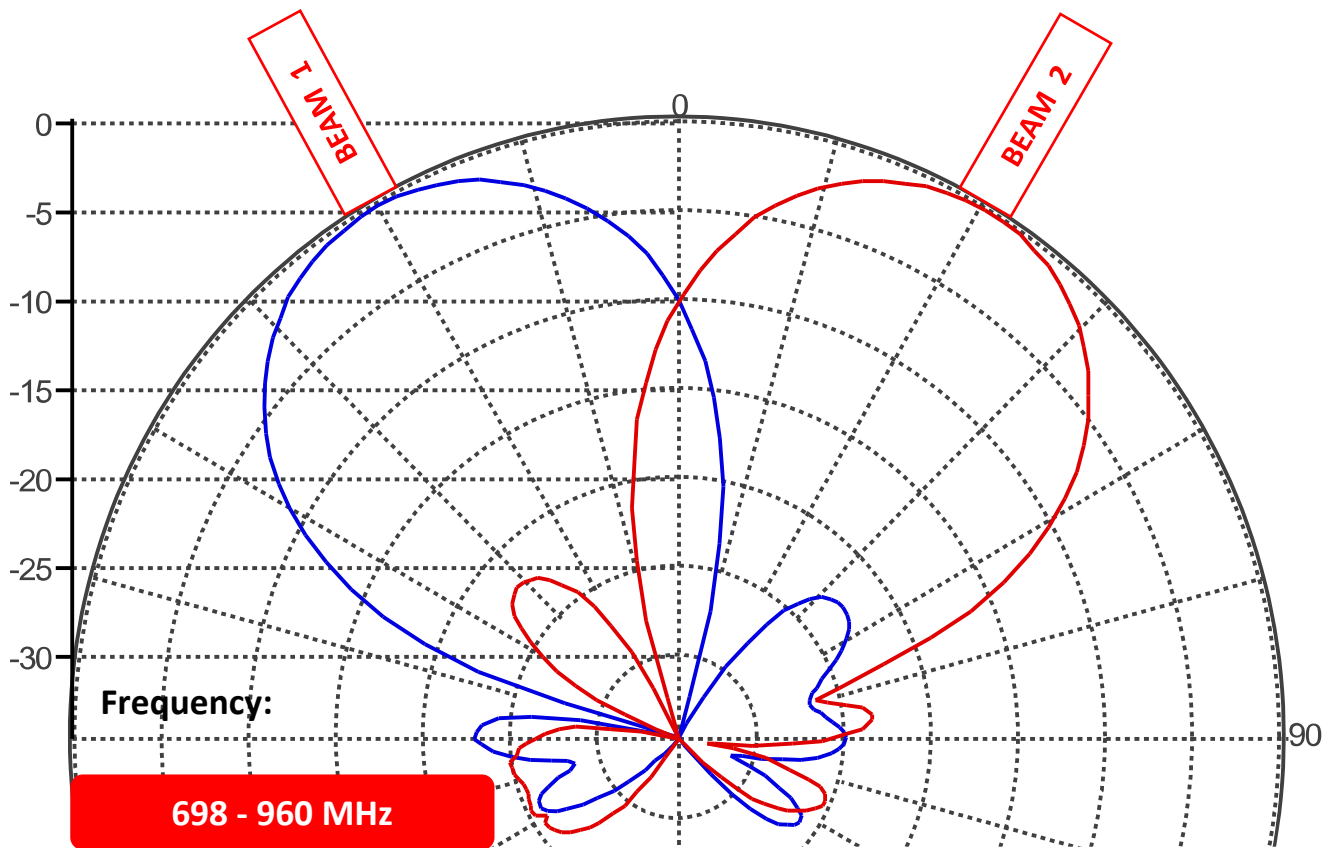


1.22 Vertical Pattern

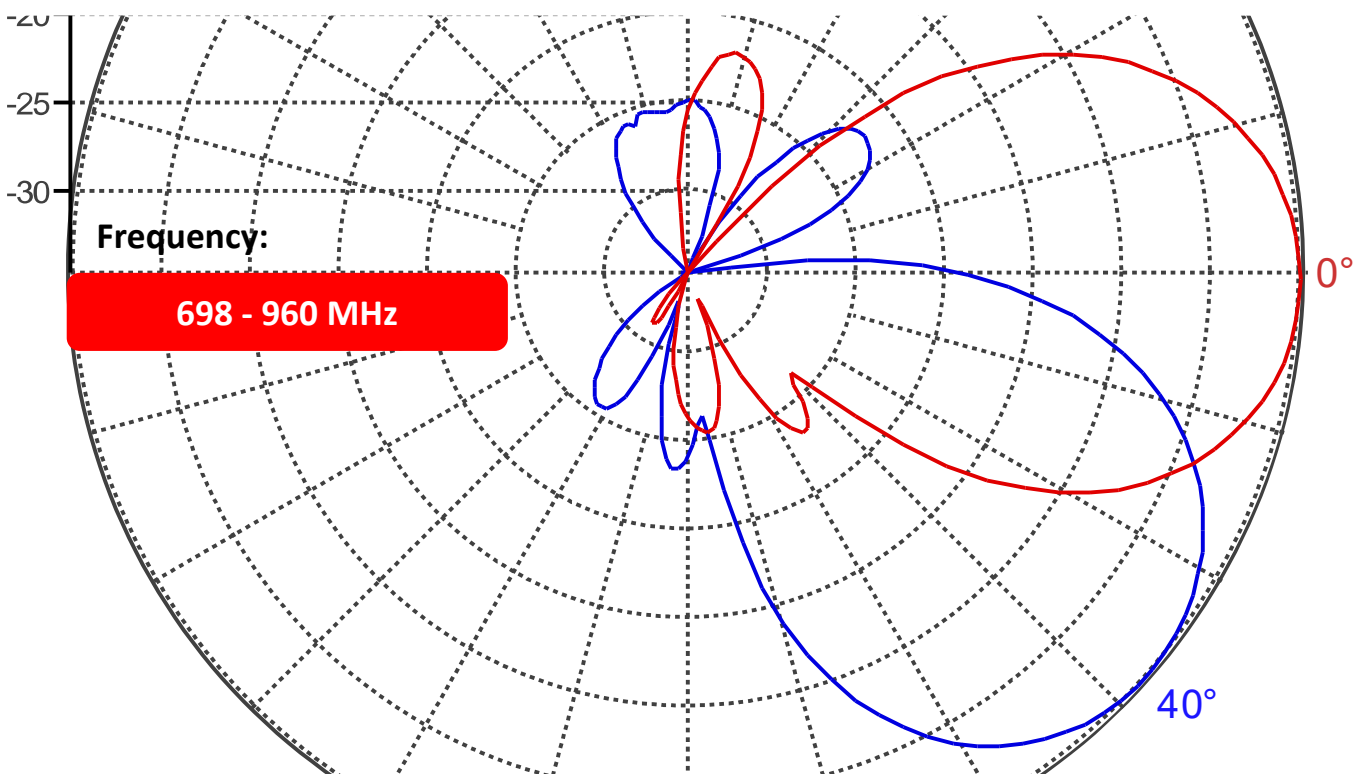


1.30 Low Band

1.31 Horizontal Pattern

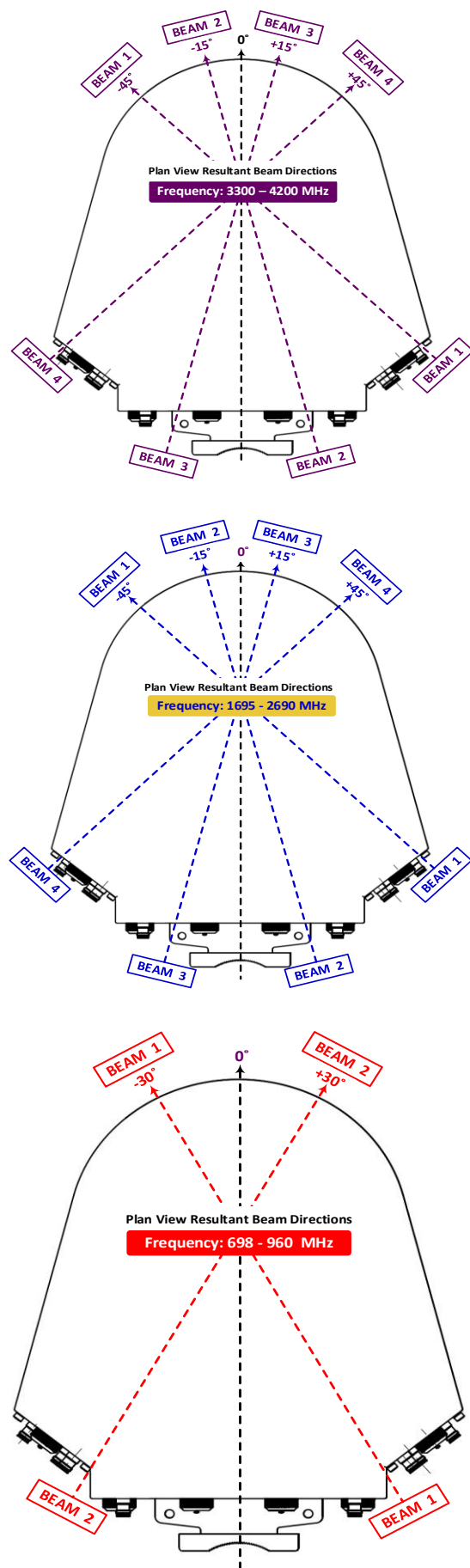


1.32 Vertical Pattern



2.00 BEAMS & CONNECTOR

2.10 Plan View Resultant Beam Layout

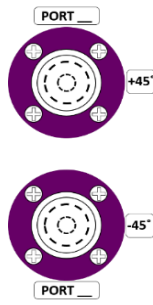


2.20 Connector Port Table

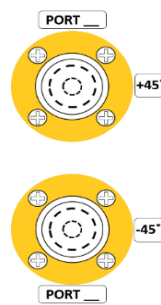
F Band	BEAM 4	BEAM 3	BEAM 2	BEAM 1
	Port 15 (+45°)	Port 11 (+45°)	Port 7 (+45°)	Port 3 (+45°)
	Port 16 (-45°)	Port 12 (-45°)	Port 8 (-45°)	Port 4 (-45°)
	Port 13 (+45°)	Port 9 (+45°)	Port 5 (+45°)	Port 1 (+45°)
H Band	Port 14 (-45°)	Port 10 (-45°)	Port 6 (-45°)	Port 2 (-45°)
	BEAM 4	BEAM 3	BEAM 2	BEAM 1
	Port 31 (+45°)	Port 27 (+45°)	Port 23 (+45°)	Port 19 (+45°)
	Port 32 (-45°)	Port 28 (-45°)	Port 24 (-45°)	Port 20 (-45°)
L Band	BEAM 2			BEAM 1
	Port 39 (+45°)			Port 35 (+45°)
	Port 40 (-45°)			Port 36 (-45°)
	Port 37 (+45°)			Port 33 (+45°)
H Band	Port 38 (-45°)			Port 34 (-45°)
	BEAM 4	BEAM 3	BEAM 2	BEAM 1
	Port 29 (+45°)	Port 25 (+45°)	Port 21 (+45°)	Port 17 (+45°)
	Port 30 (-45°)	Port 26 (-45°)	Port 22 (-45°)	Port 18 (-45°)

2.30 Connector Detail

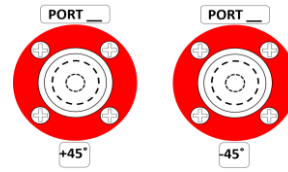
F BAND



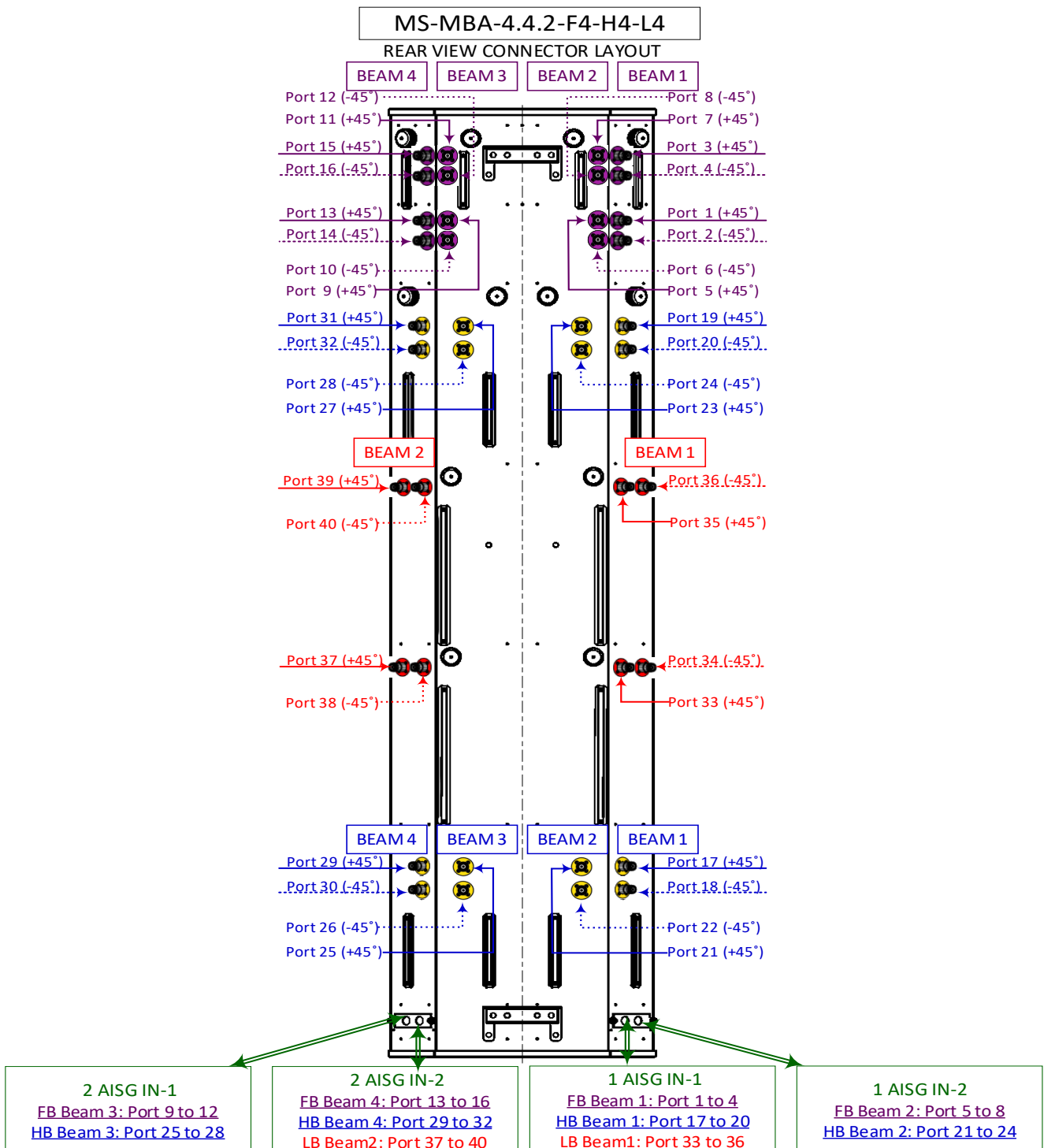
H BAND



LOW BAND

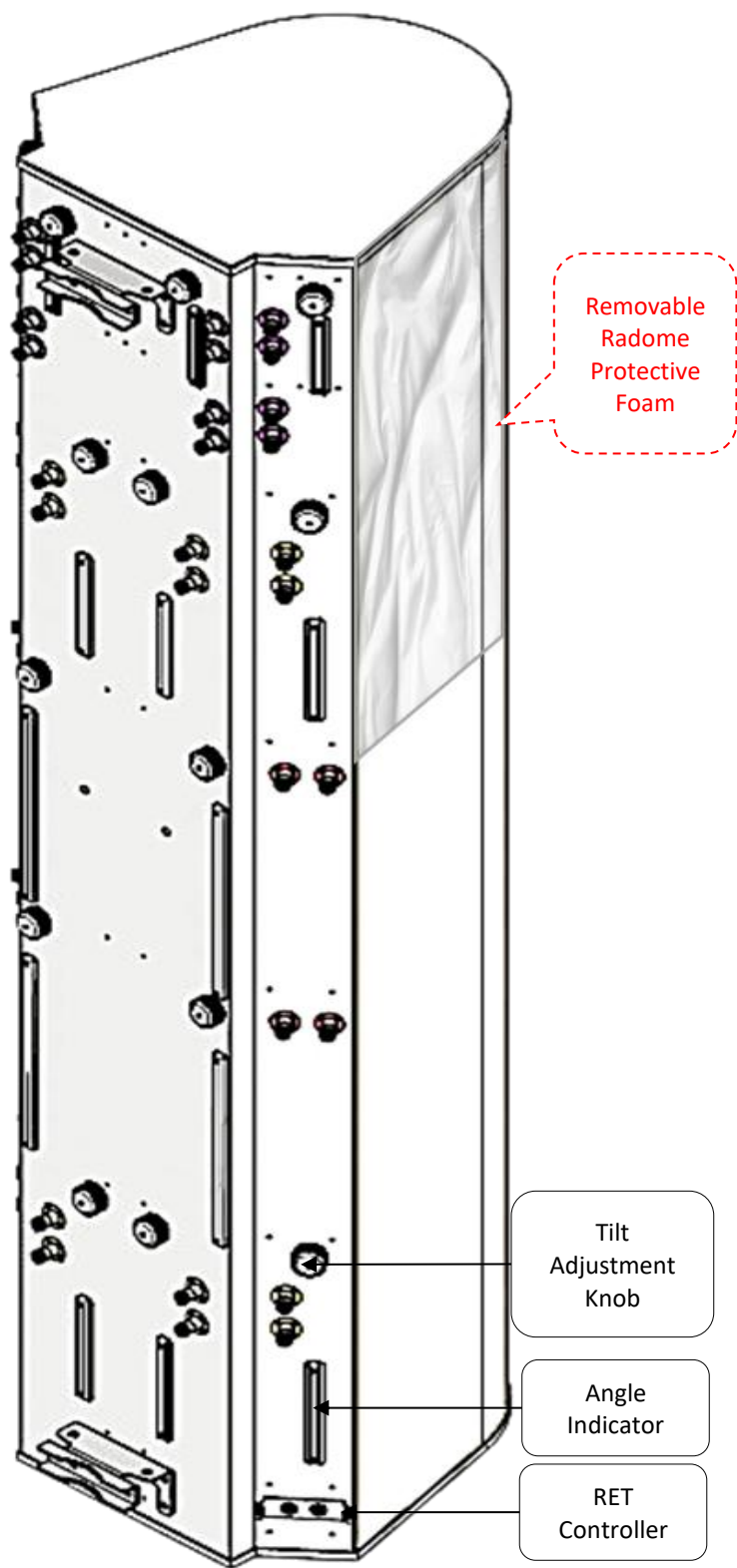


2.40 Connector Layout



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.



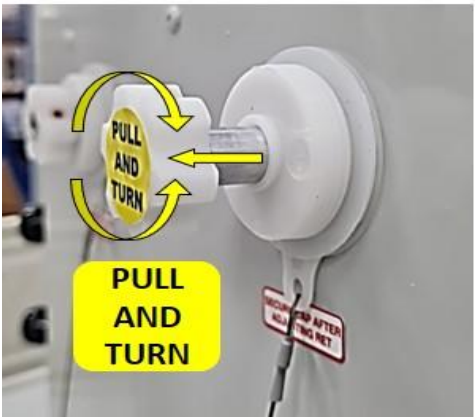
Unscrew/Screw the cap for tilt adjustment process



Engaged with internal RET motor position



Pull handle out to disengaged RET for tilt adjustment



4.00 BRACKET INSTALLATION

4.10 Bolts, Nuts and Tools

Bracket		Mounting Bolts		Nuts	
Qty	Size	Qty	Size	Qty	
2	M12x200mm	4	M12	8	

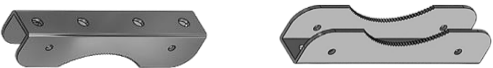
4.20 Tools



4.11 Bolt and Nuts Set



4.12 Bracket



4.30 Bracket Spacing & Installation Sample

