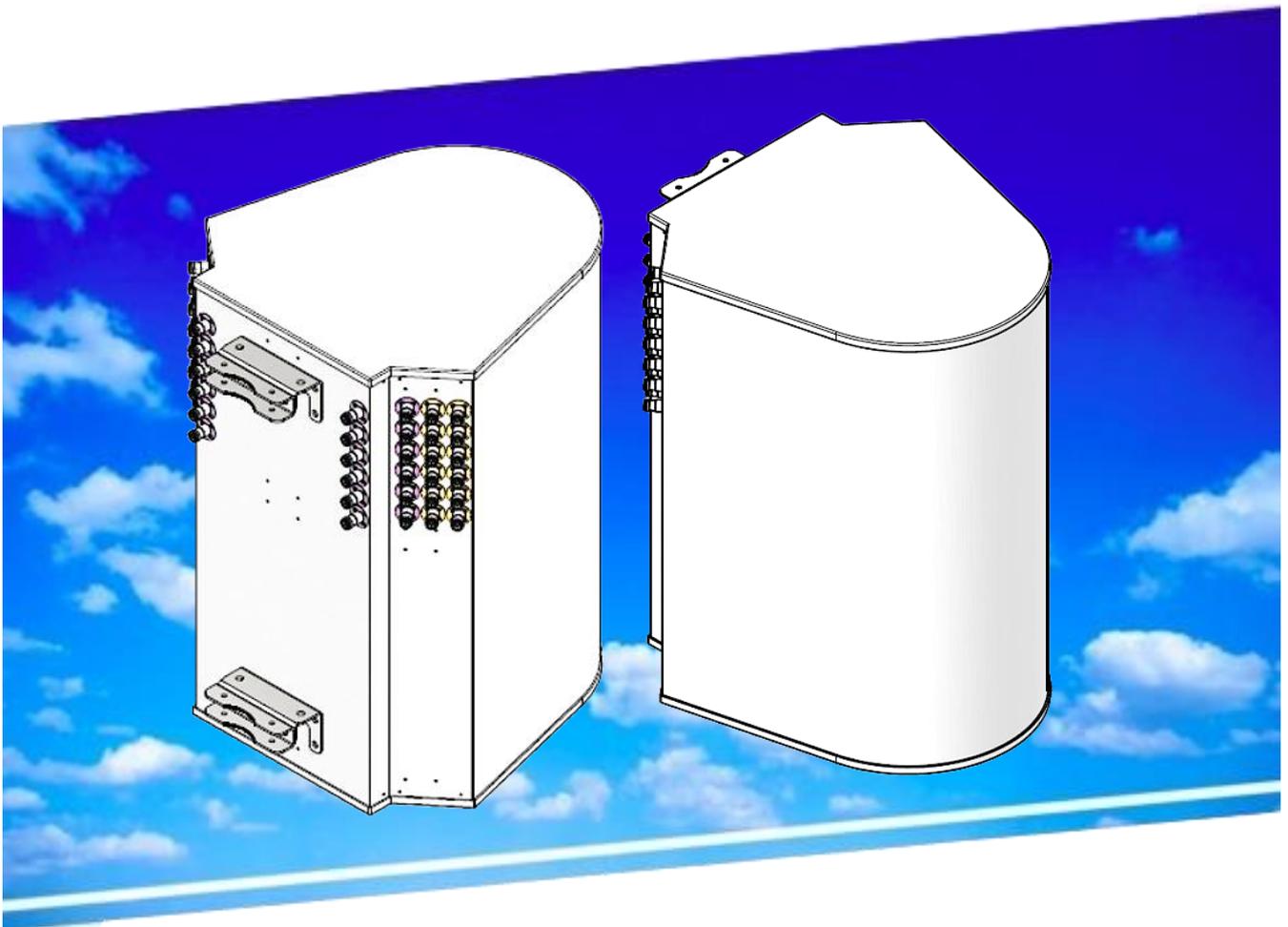


MATSING®

LENS TECHNOLOGY ENABLED

MS-MBA-12.12-F2-H2

Instruction Manual



www.matsing.com technicalsupport@matsing.com phone: (800) 867-6429



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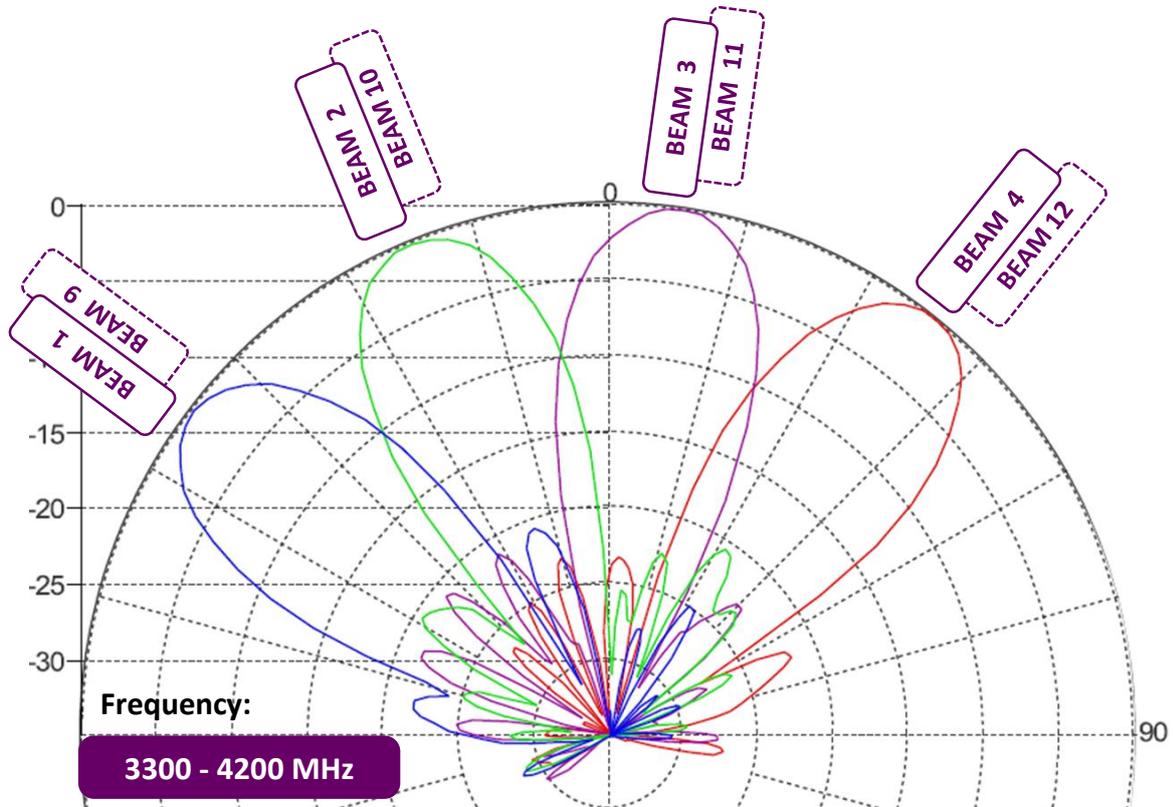
Revision History:

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

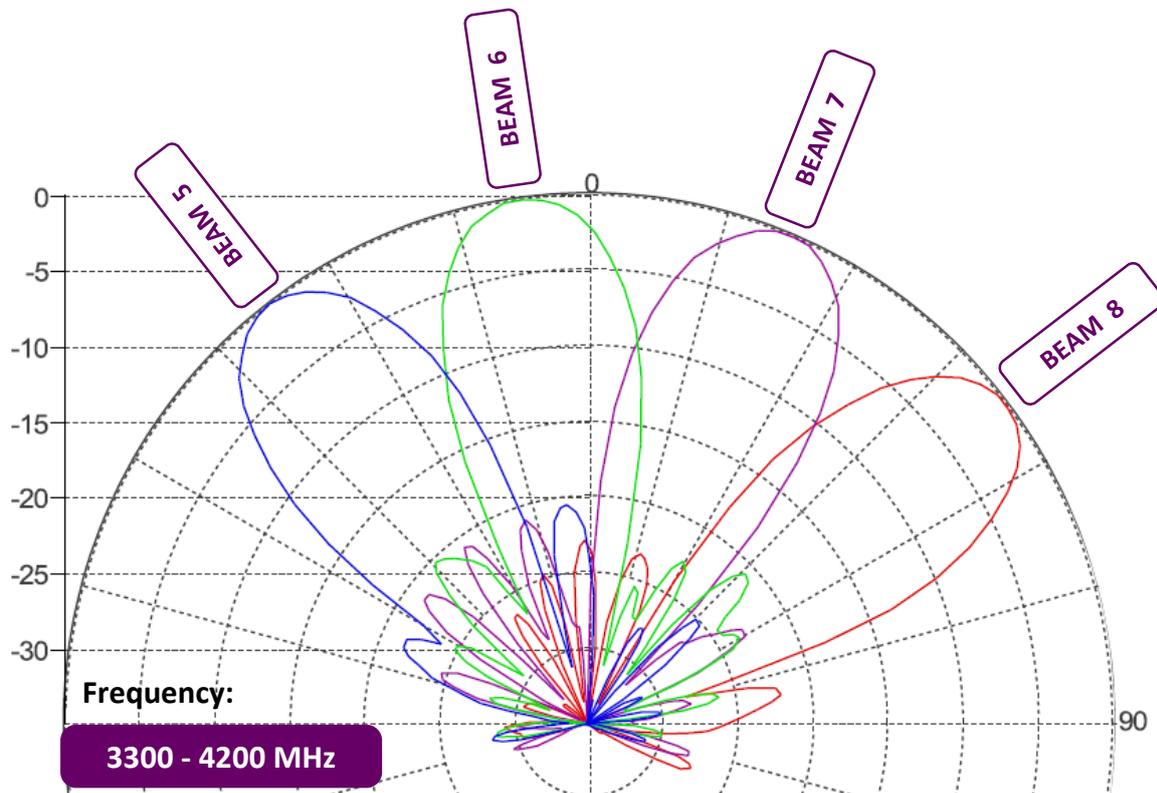
1.00 Pattern diagram

1.10 F-Band horizontal pattern

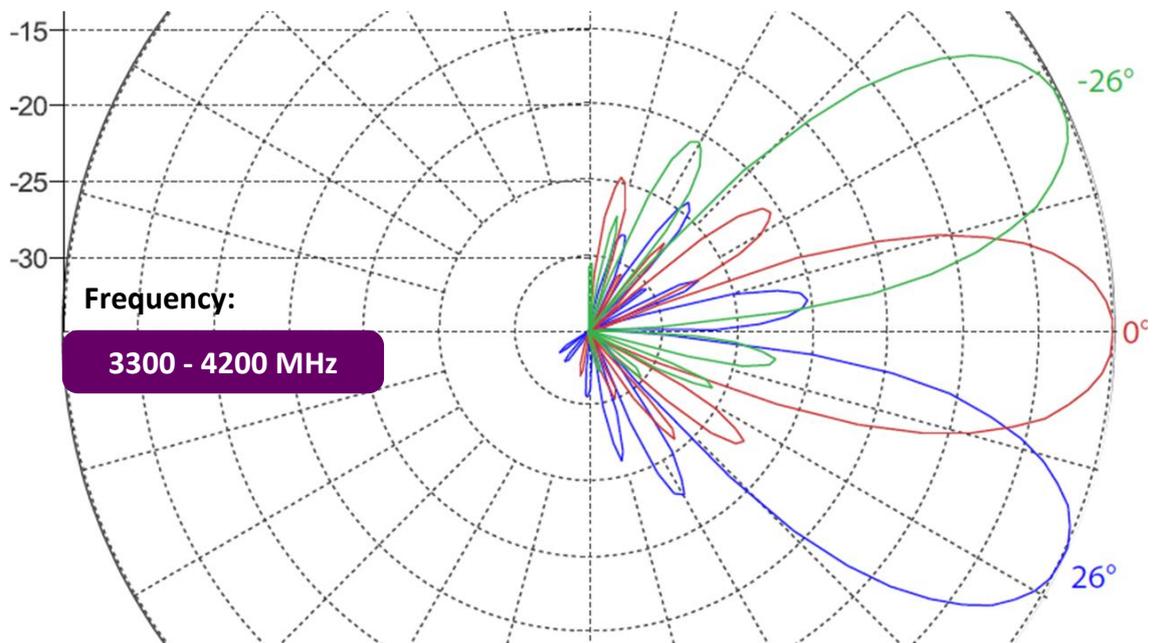
1.11 Row 1=Beam 1 to 4, Row 3=Beam 9 to 12



1.12 Row 2=Beam 5 to 8

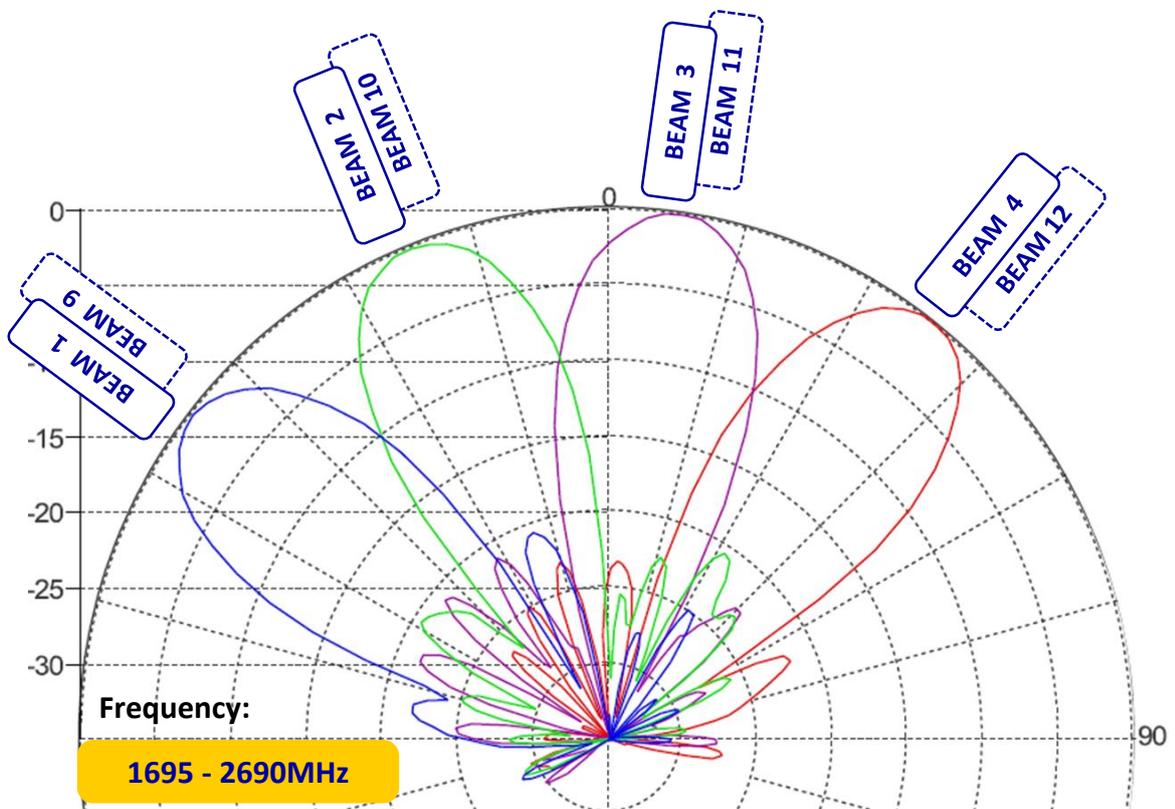


1.20 F-Band Vertical pattern

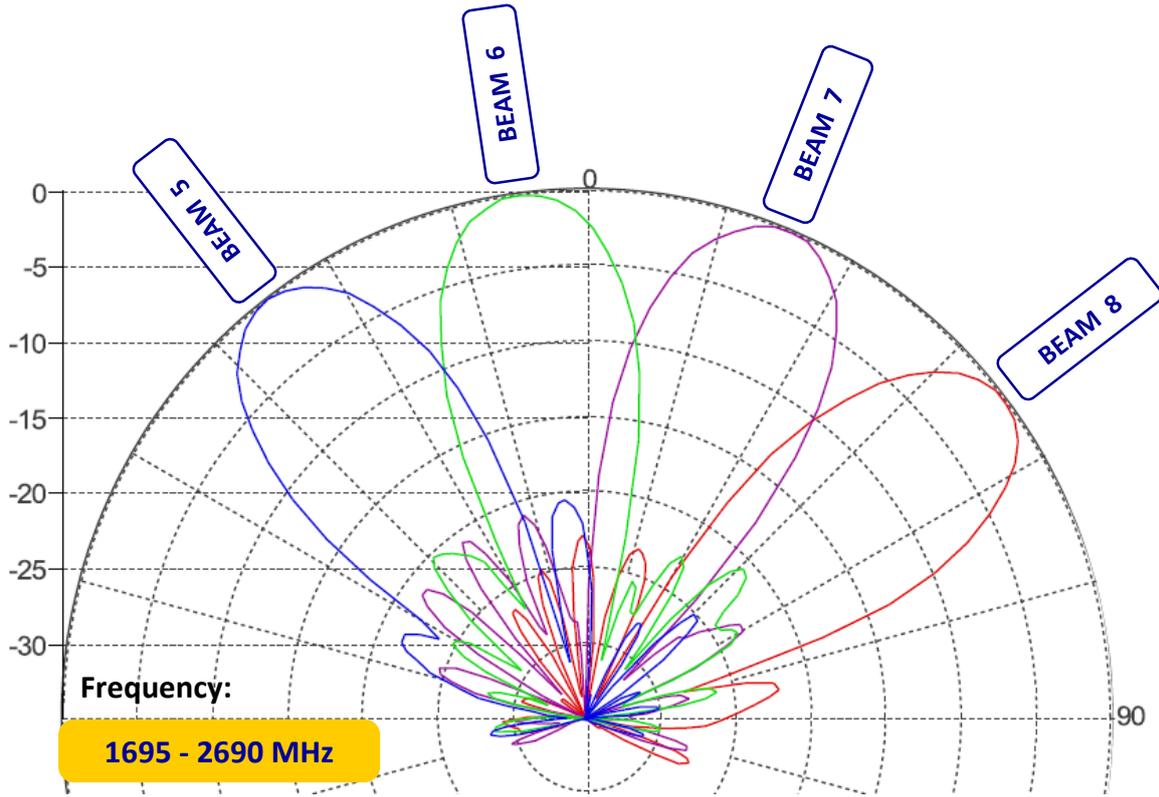


1.30 H-Band horizontal pattern

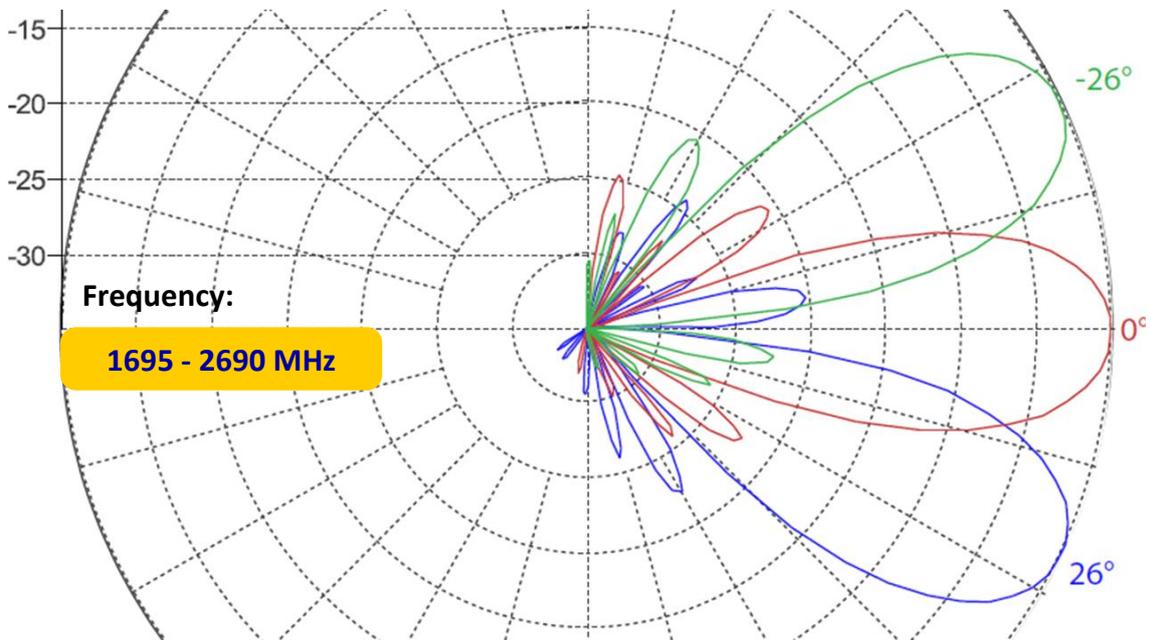
1.31 Row 1=Beam 1 to 4, Row 3=Beam 9 to 12



1.32 Row 2=Beam 5 to 8

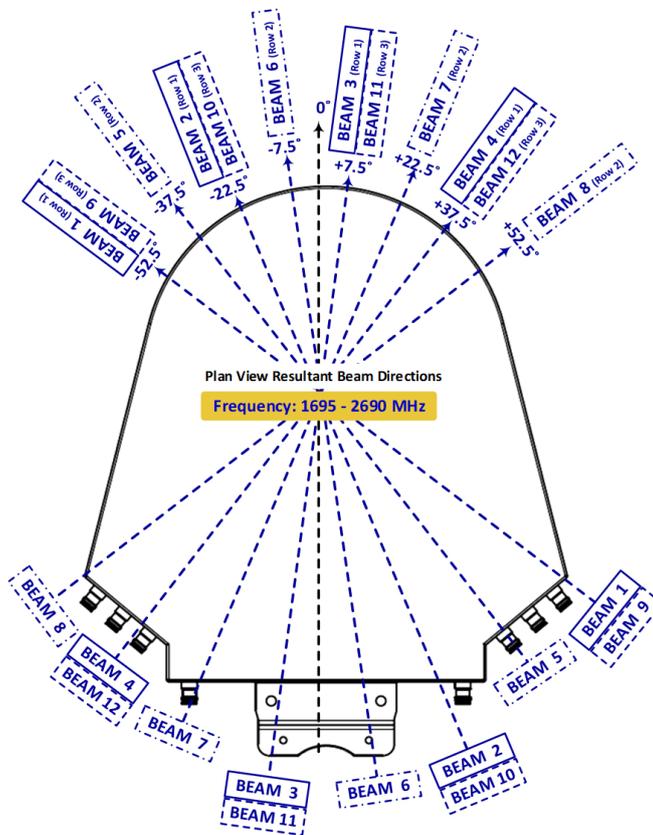
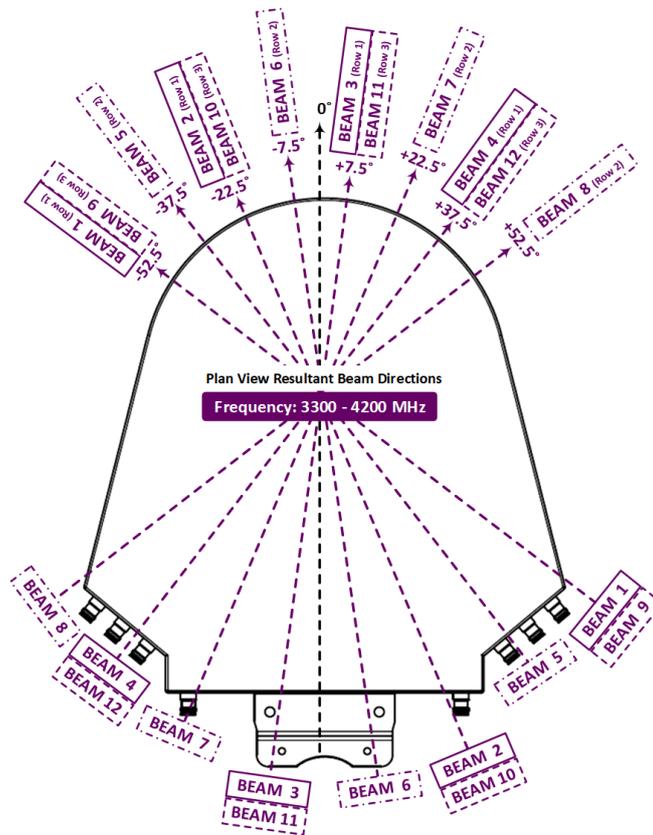


1.40 H-Band Vertical pattern



2.00 Beams and connectors

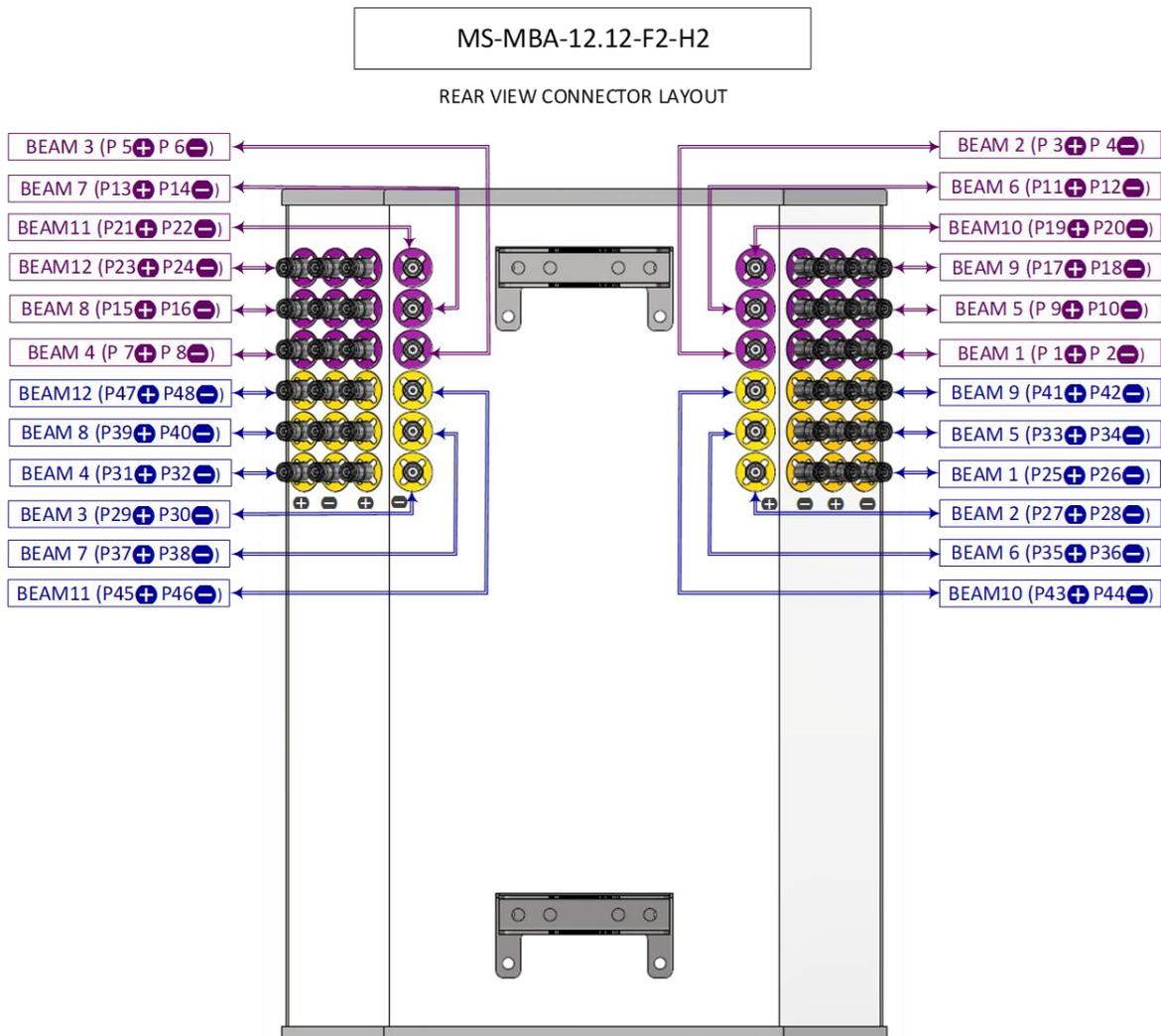
2.10 Plan view resultant beam layout



2.20 Connector port table

BEAM 12		BEAM 11		BEAM 10		BEAM 9	
Port 23 (+45°)	Port 24 (-45°)	Port 21 (+45°)	Port 22 (-45°)	Port 19 (+45°)	Port 20 (-45°)	Port 17 (+45°)	Port 18 (-45°)
BEAM 8		BEAM 7		BEAM 6		BEAM 5	
Port 15 (+45°)	Port 16 (-45°)	Port 13 (+45°)	Port 14 (-45°)	Port 11 (+45°)	Port 12 (-45°)	Port 9 (+45°)	Port 10 (-45°)
BEAM 4		BEAM 3		BEAM 2		BEAM 1	
Port 7 (+45°)	Port 8 (-45°)	Port 5 (+45°)	Port 6 (-45°)	Port 3 (+45°)	Port 4 (-45°)	Port 1 (+45°)	Port 2 (-45°)
BEAM 12		BEAM 11		BEAM 10		BEAM 9	
Port 47 (+45°)	Port 48 (-45°)	Port 45 (+45°)	Port 46 (-45°)	Port 43 (+45°)	Port 44 (-45°)	Port 41 (+45°)	Port 42 (-45°)
BEAM 8		BEAM 7		BEAM 6		BEAM 5	
Port 39 (+45°)	Port 40 (-45°)	Port 37 (+45°)	Port 38 (-45°)	Port 35 (+45°)	Port 36 (-45°)	Port 33 (+45°)	Port 34 (-45°)
BEAM 4		BEAM 3		BEAM 2		BEAM 1	
Port 31 (+45°)	Port 32 (-45°)	Port 29 (+45°)	Port 30 (-45°)	Port 27 (+45°)	Port 28 (-45°)	Port 25 (+45°)	Port 26 (-45°)

2.30 Connector layout



3.00 Bracket installation

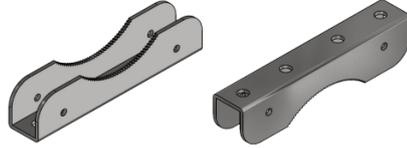
3.10 Bolts and nuts / tools

3.11 Bolt and nuts set



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

3.12 Bracket



3.20 Tools requirement

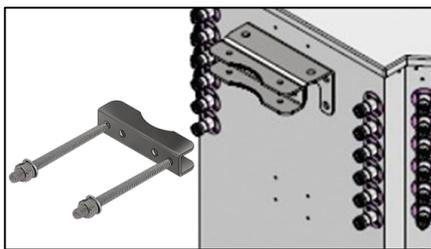
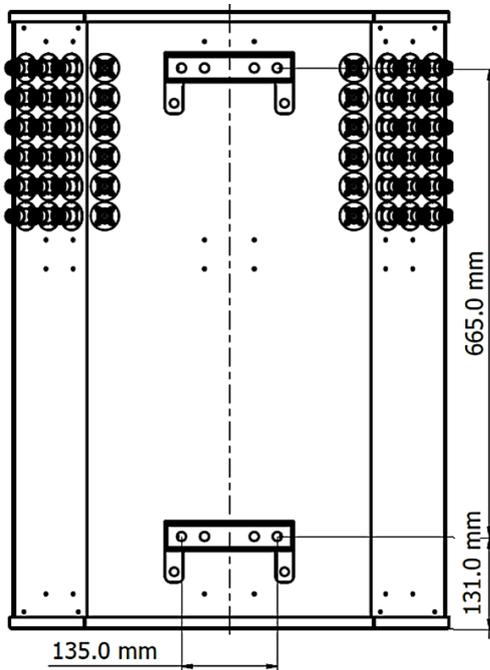
Adjustable spanner



M12 spanner



3.30 Bracket spacing & installation guide



Before installation

