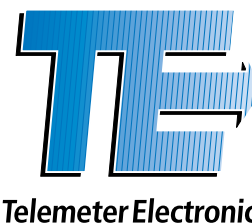


# Quad Ridged Horn Antenna Model QRH20E



## Electrical Specifications

Frequency Range	1.7 GHz – 20 GHz
VSWR (max.)	2.4
VSWR (avg.)	1.45
Impedance	50 $\Omega$
Connector	SMA
Power (CW / Peak)	20 W / 40 W
Antenna Factor	28 – 42.5 dB/m
Port Isolation	-35 dB
Polarization	Dual Linear, Circular (with hybrid)



## Physical Specifications

Width	101 mm (3.976 in)
Height	132 mm (5.197 in)
Depth	101 mm (3.976 in)
Weight	0.258 kg (0.569 lb)

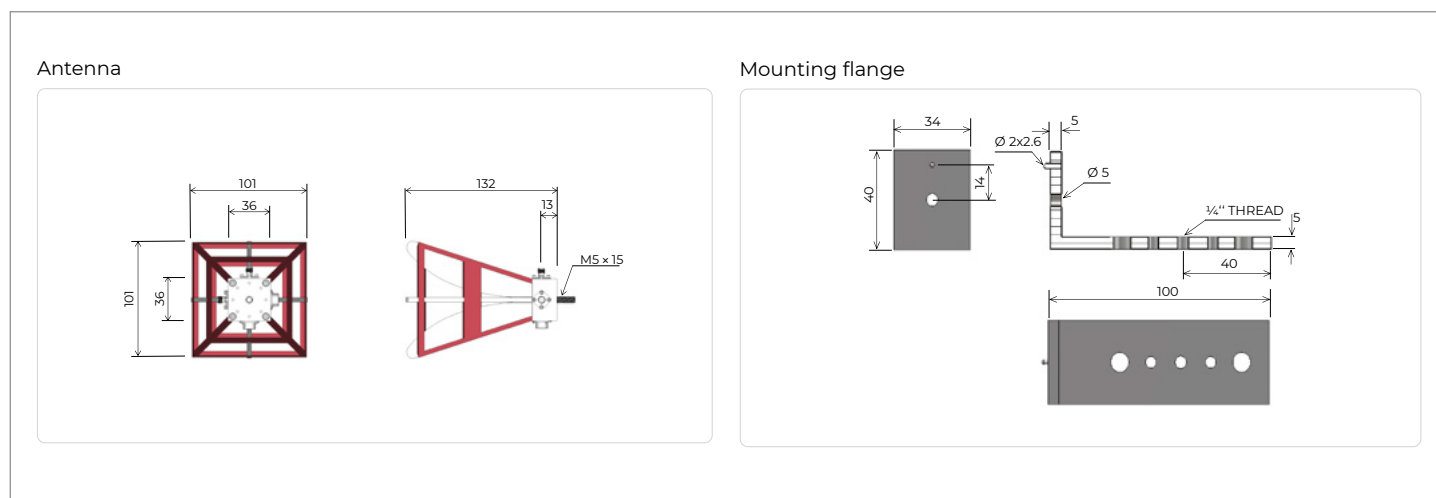
## Operating Conditions

Rated Temperature Range	0 °C – +50 °C
Storage Temperature Range	-20 °C – +70 °C

## Mounting Flange

Mounting	Adapter with inch innerthread, supplied with antenna
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## Mechanical Drawings



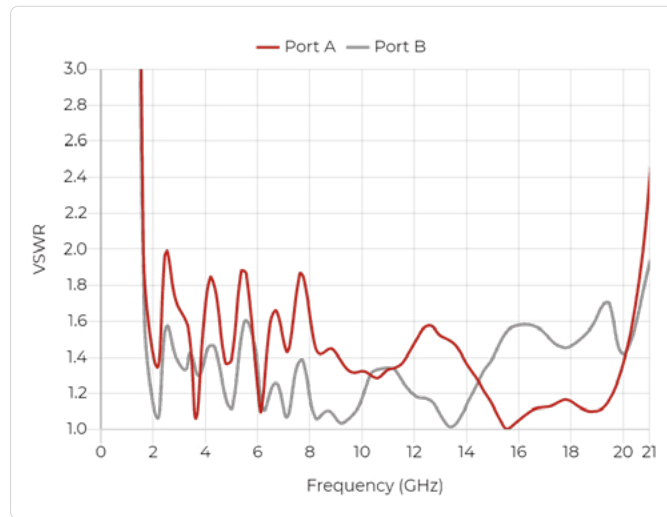
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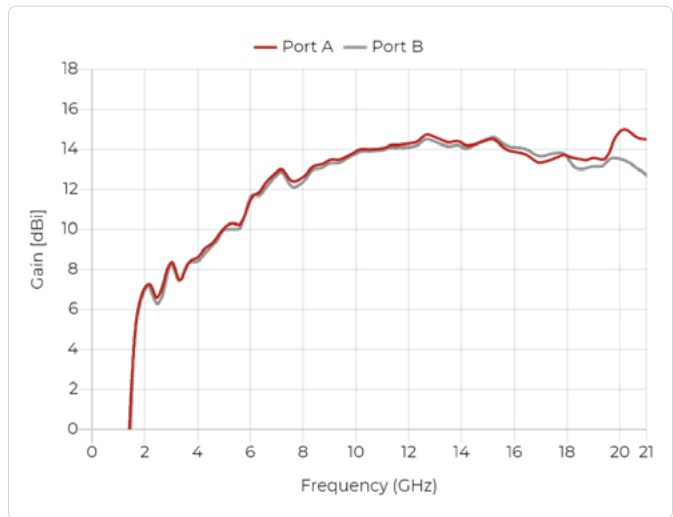
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## Typical Parameters

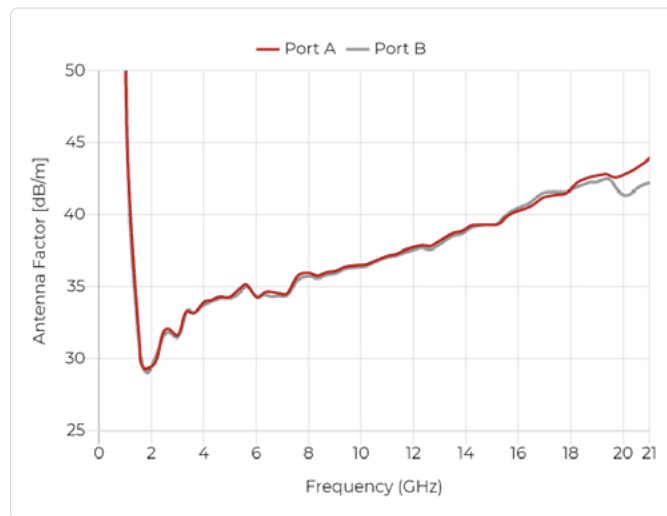
VSWR



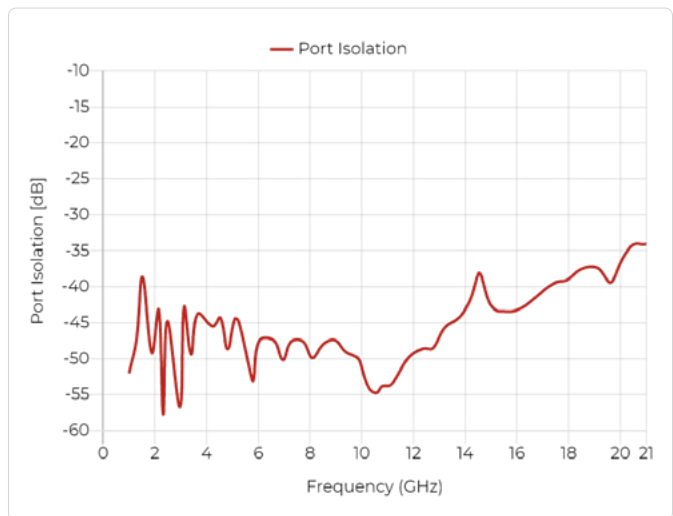
Gain



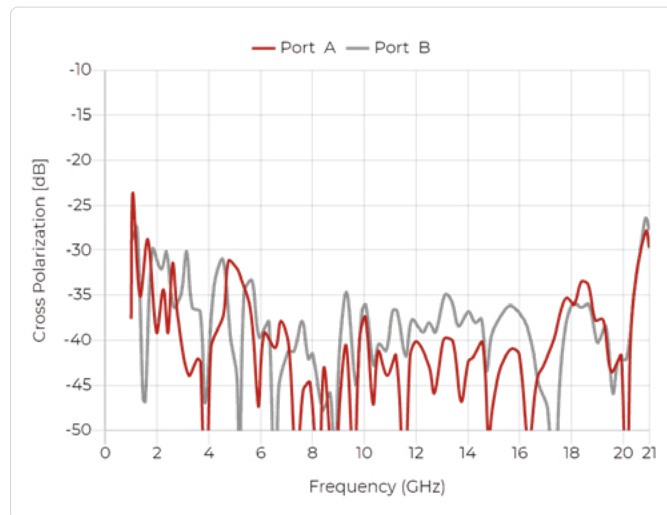
Antenna Factor



Port Isolation



Cross Polarization



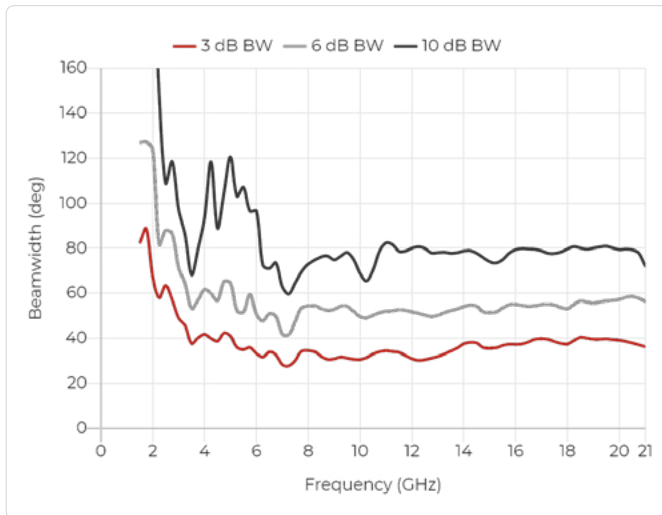
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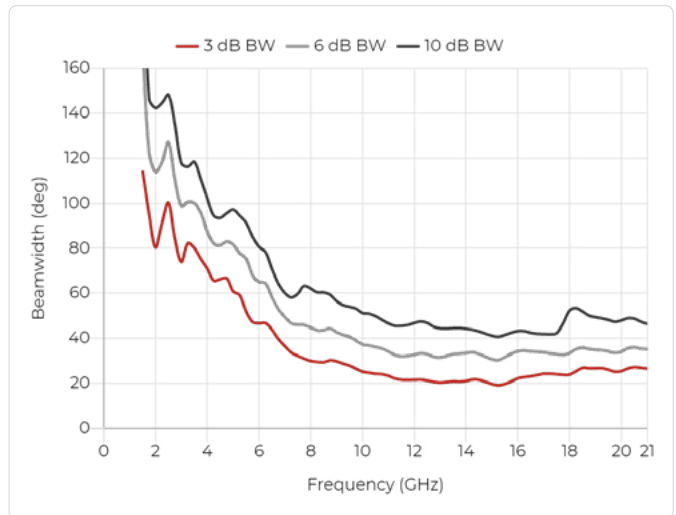
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## Beamwidth

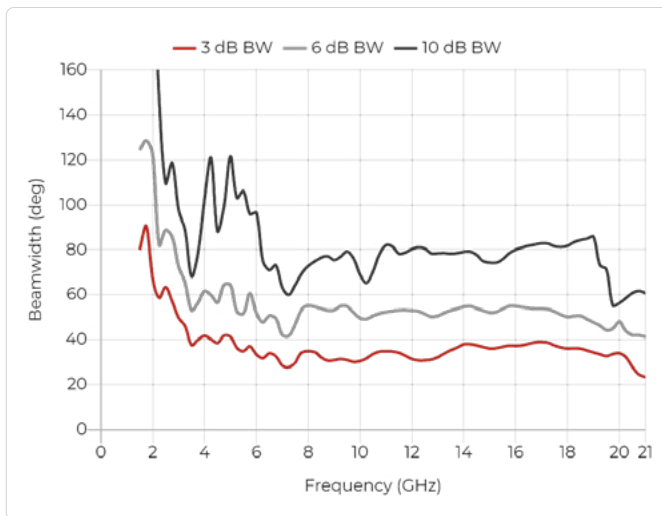
Port A, E plane



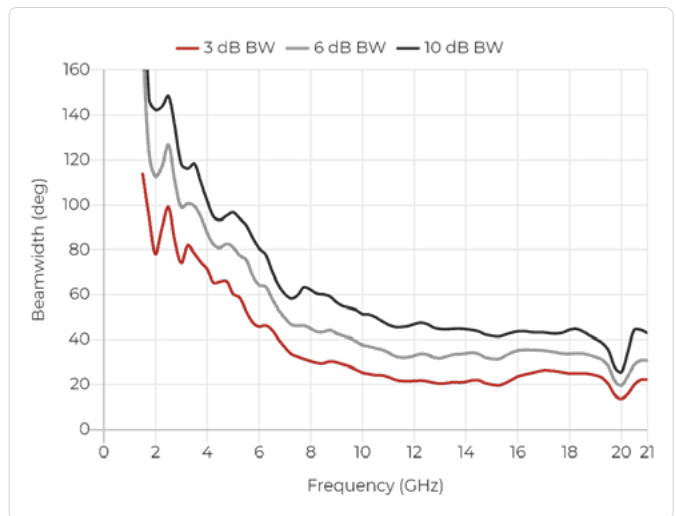
Port A, H plane



Port B, E plane



Port B, H plane



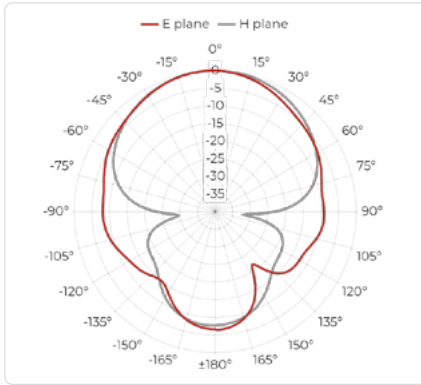
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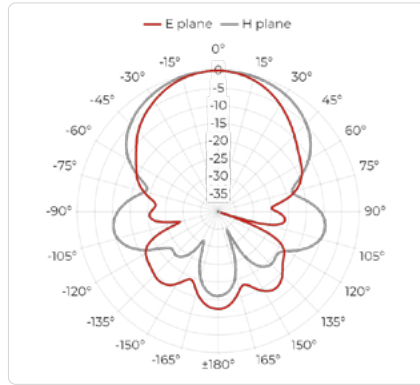
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# Radiation Patterns - Port A

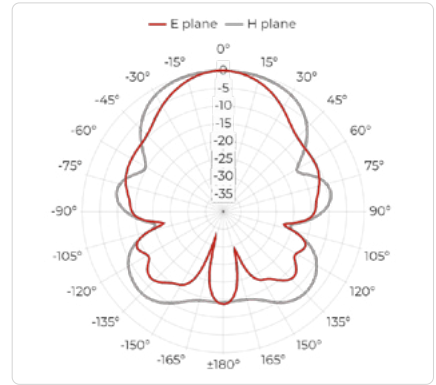
Port A, 2 GHz



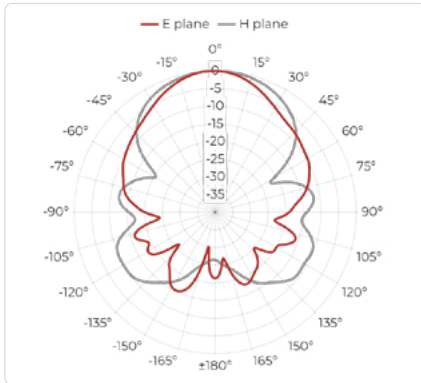
Port A, 3 GHz



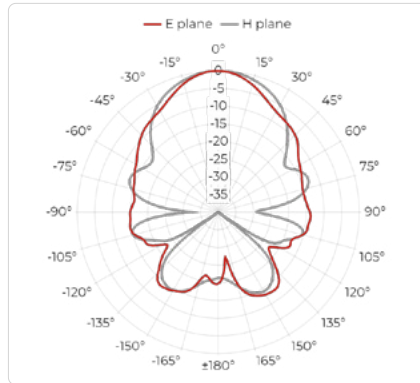
Port A, 4 GHz



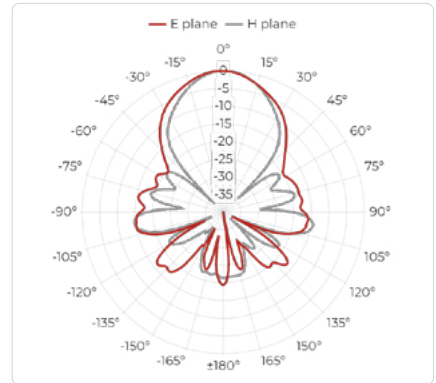
Port A, 5 GHz



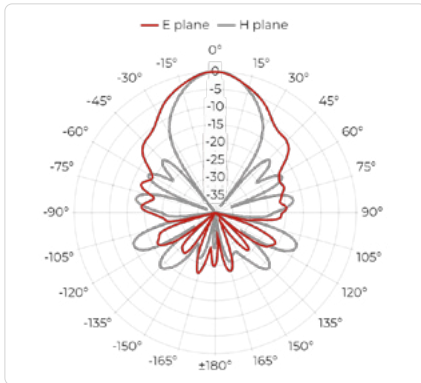
Port A, 6 GHz



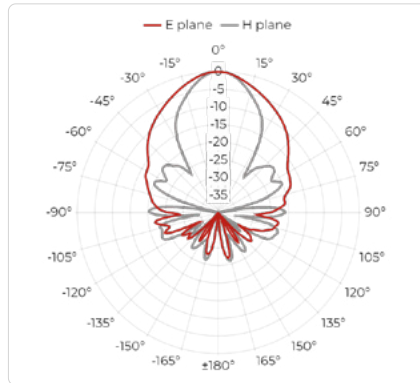
Port A, 8 GHz



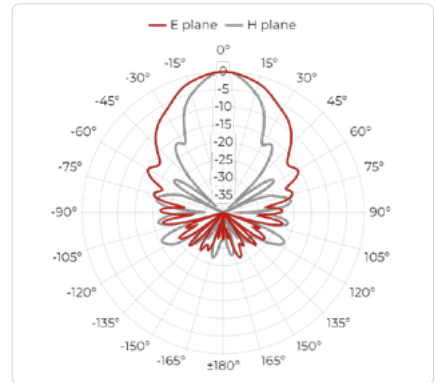
Port A, 10 GHz



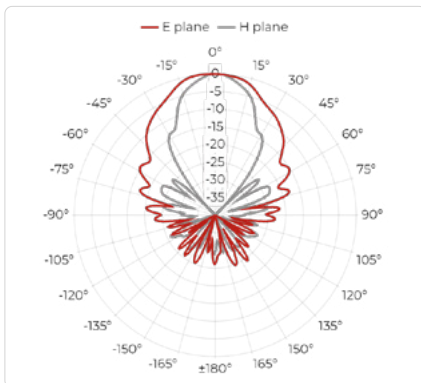
Port A, 12 GHz



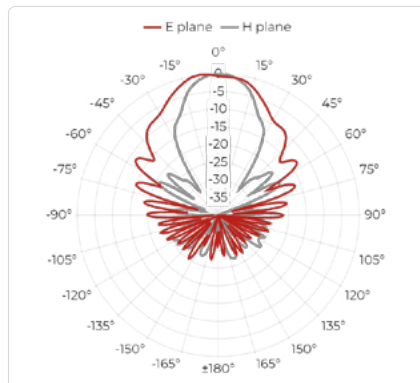
Port A, 14 GHz



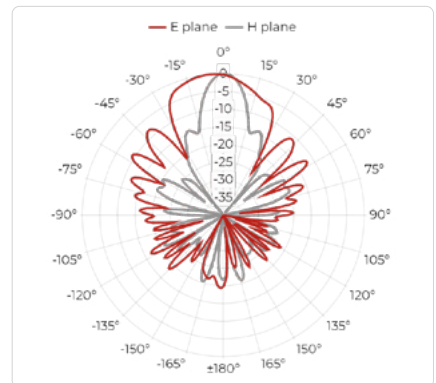
Port A, 16 GHz



Port A, 18 GHz



Port A, 20 GHz



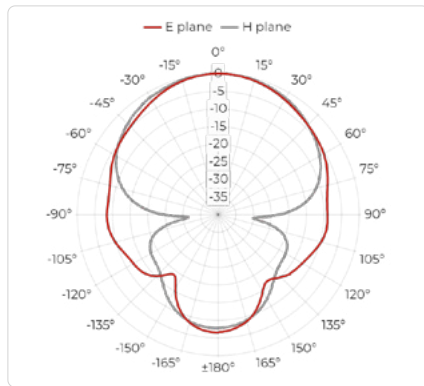
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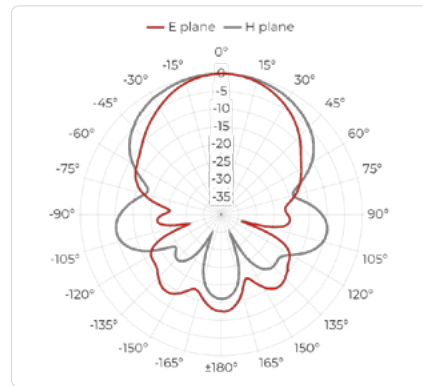
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## Radiation Patterns - Port B

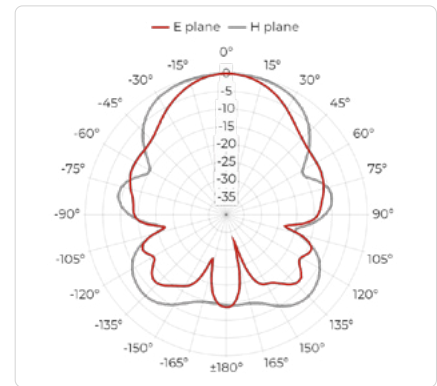
Port B, 2 GHz



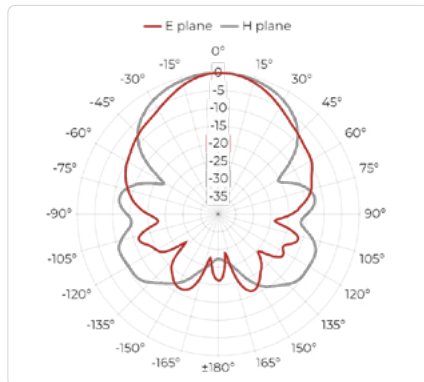
Port B, 3 GHz



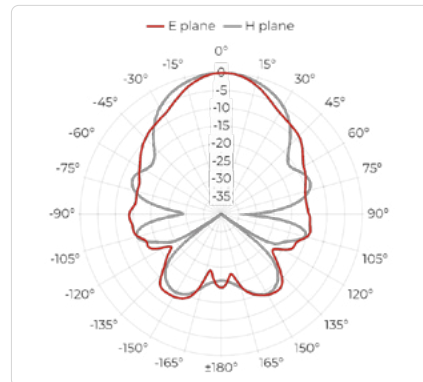
Port B, 4 GHz



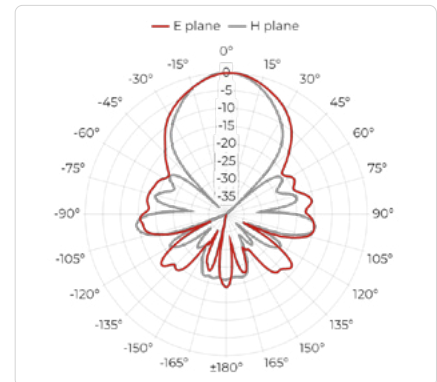
Port B, 5 GHz



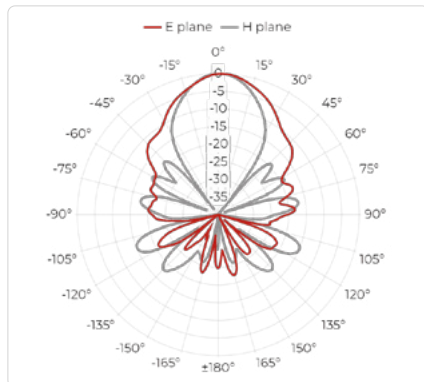
Port B, 6 GHz



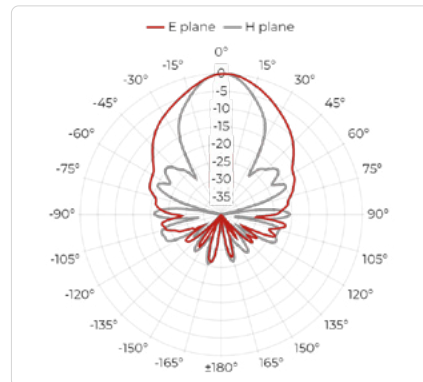
Port B, 8 GHz



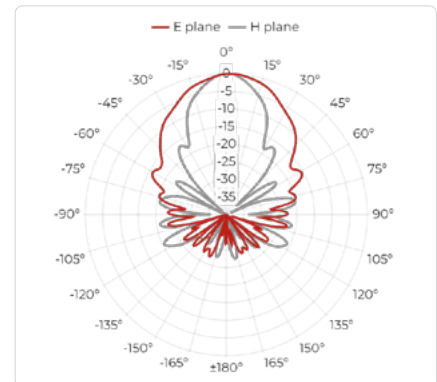
Port B, 10 GHz



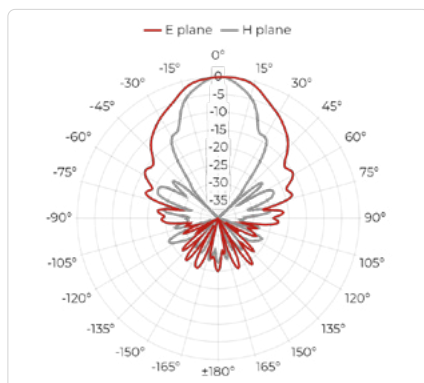
Port B, 12 GHz



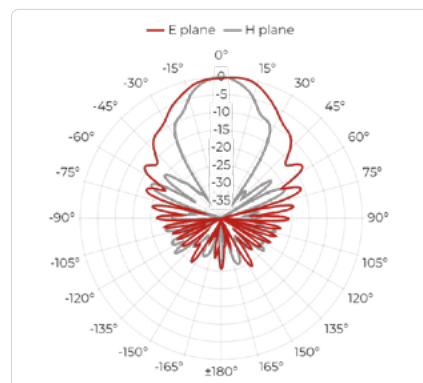
Port B, 14 GHz



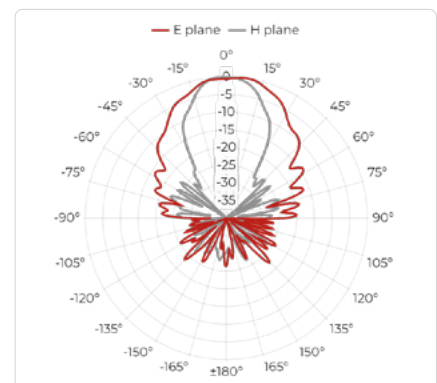
Port B, 16 GHz



Port B, 18 GHz



Port B, 20 GHz



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