

Electric Specification

Adapter Type	Right Angel
Adapter Grade	Standard
Frequency Band	S & C
Waveguide Type	Rectangular
Waveguide Size EI WR	WR229
Min. Frequency (GHz)	3.3
Max. Frequency (GHz)	4.9
VSWR Max	1.21
VSWR Min	1
Impedance (Ω)	50
Max. Insertion Loss (dB)	0.27
Min. Insertion Loss (dB)	0.21

Interface

Flange Style	Square
Flange Type	FDP40 (UBR40)

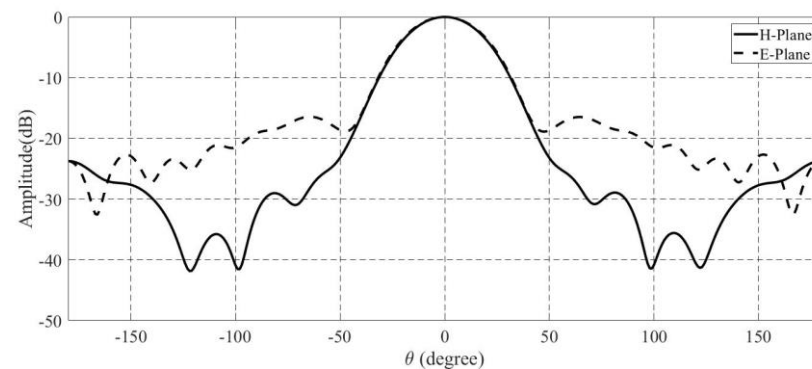
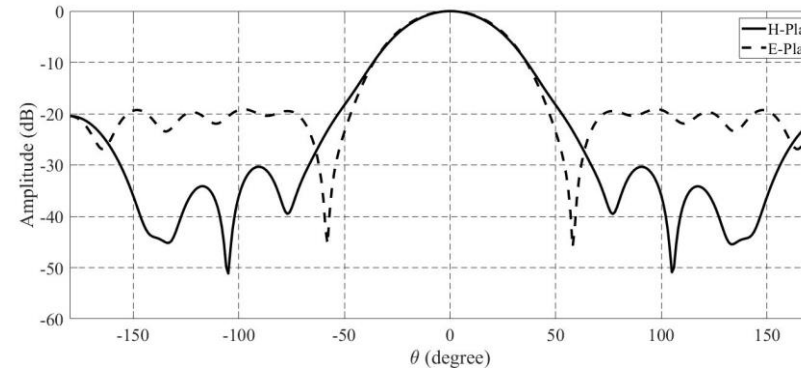
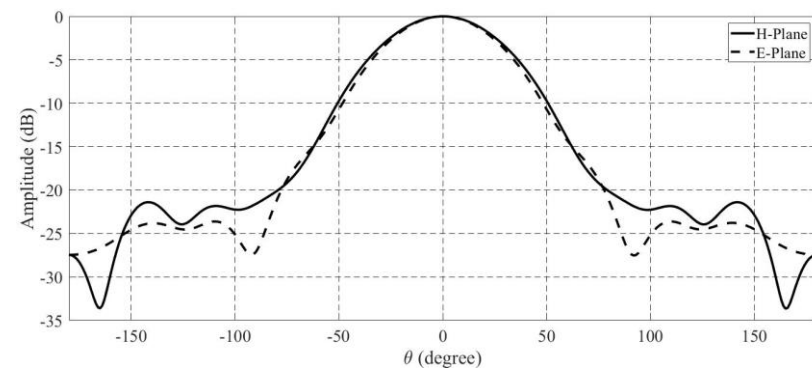
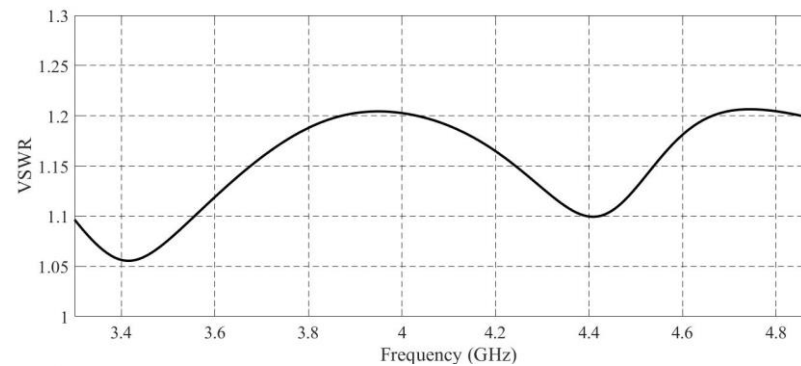
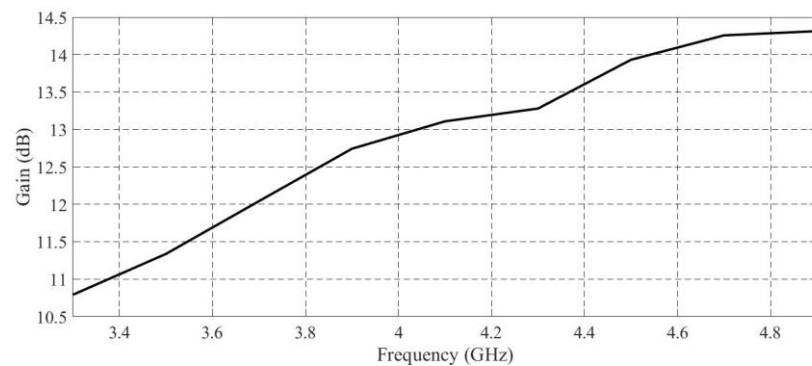
Mechanical Specification

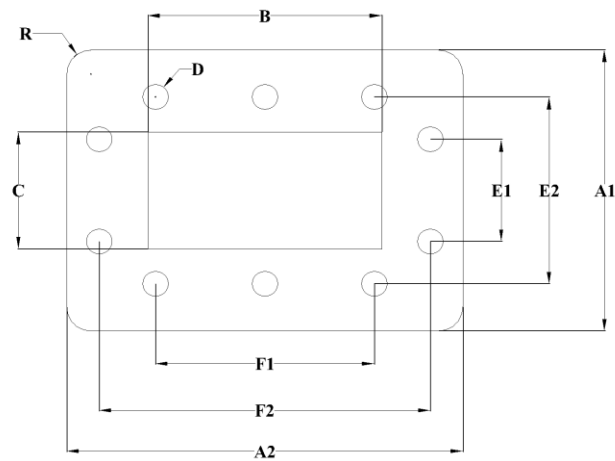
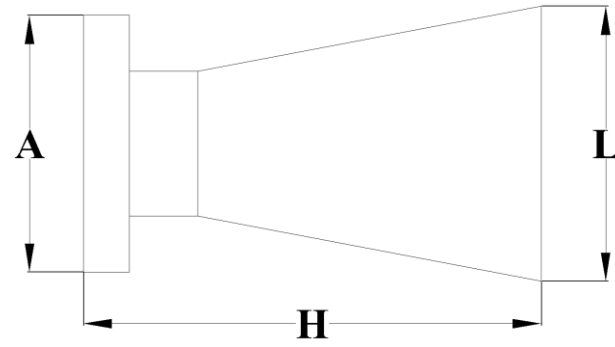
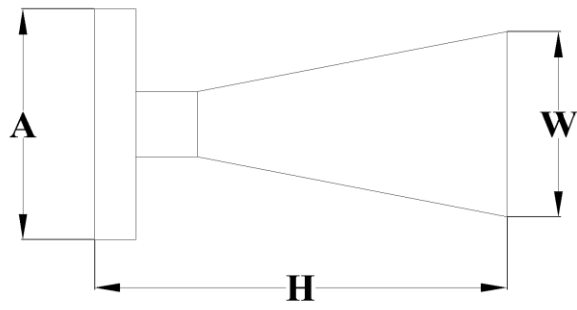
Body Material	Al
Finishing	Gray Paint
Operating Temp Low(°c)	-50
Operating Temp High(°c)	80



Overview

Rectangular Horn Antenna (WR229), operating from 3.3 to 4.9 GHz, is designed to provide efficient radiation with stable gain and low reflection across the operating band. The antenna exhibits low VSWR (≤ 1.21), ensuring good impedance matching to free space and minimal power loss. Based on the WR1229 waveguide standard, it offers a reliable transition from guided waves inside the waveguide to radiated electromagnetic waves in space. The horn antenna can handle up to 50 W of continuous power and 3 kW peak power, making it suitable for high-power microwave applications. It is equipped with an FDP40 (UBR40) flange for secure mechanical integration. Manufactured in accordance with CACIRA high-quality standards, this horn antenna is an essential component for microwave systems, antenna measurements, EMC testing, and radar or communication applications.





Parameter	Inch (mm)
A1	2.752 (69.9)
A2	3.874 (98.4)
B	2.29 (58.17)
C	1.145 (29.083)
D	0.25 (6.35)
E1	1 (25.4)
E2	2.102 (53.4)
F1	2.140 (54.36)
F2	3.240 (82.3)
H	6.142 (156)
L	4.656 (118)
R	0.236 (6)
W	3.504 (89)