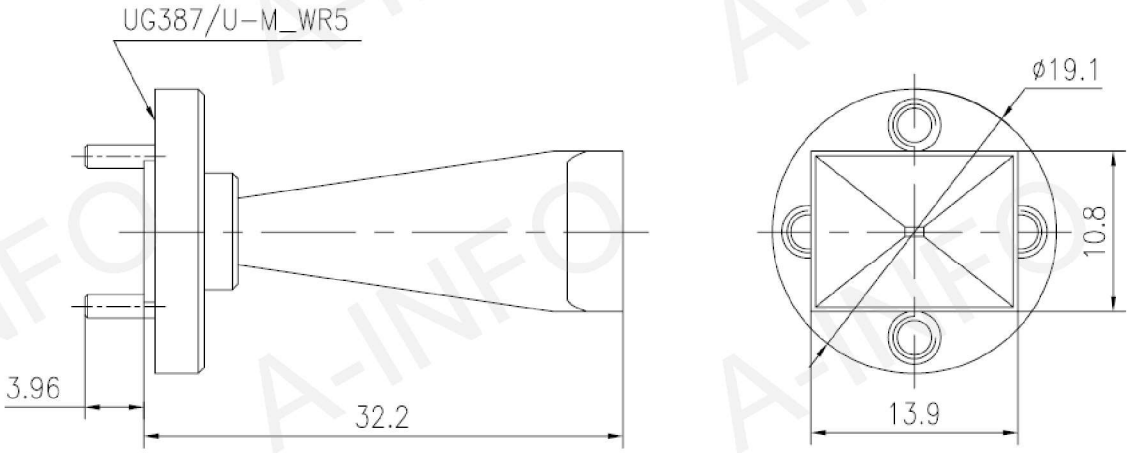
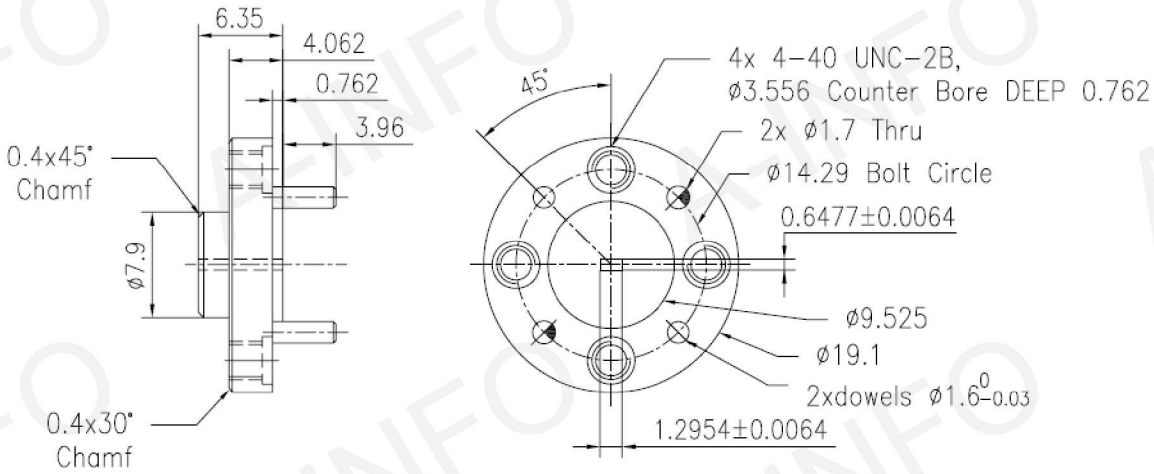
Technical Specification

Frequency Range(GHz)	140.0 - 220.0
Gain(dB)	25 Typ.
3dB Beamwidth(deg)	10 Typ.
Waveguide	WR5
Material	Cu
Output	A Type: UG387/U-M_WR5
Size(mm) W x H x L	A Type: 13.9x10.8x32.2
Net Weight(Kg)	A Type: 0.015 Around

Outline Drawing (Size: mm)



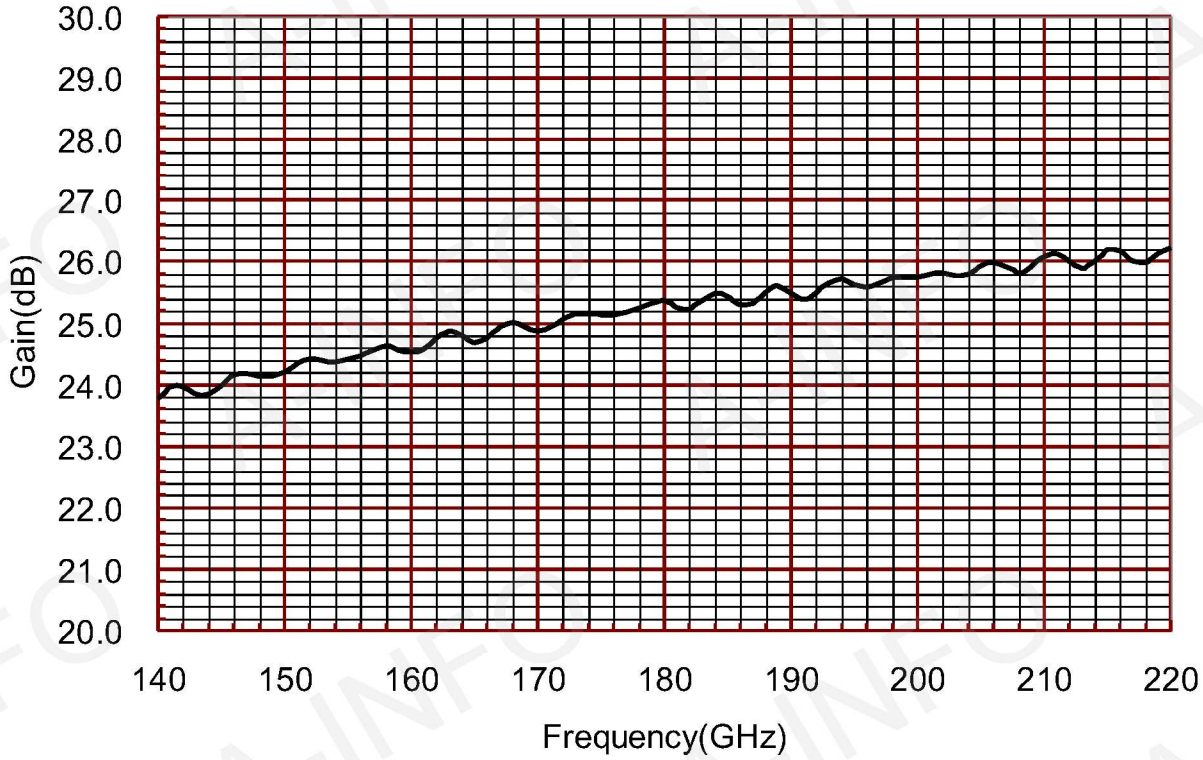
Flange Drawing (Size: mm)

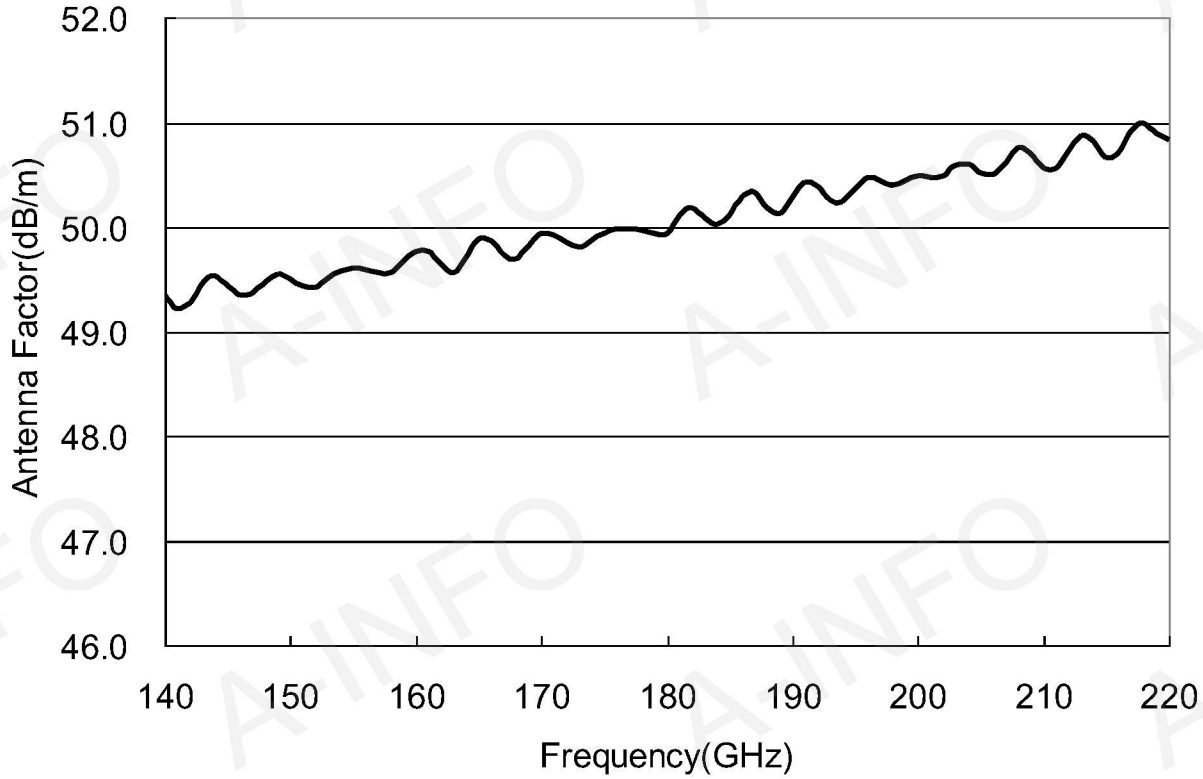


UG387/U-M_WR5

Test Results

1. Gain & Antenna Factor

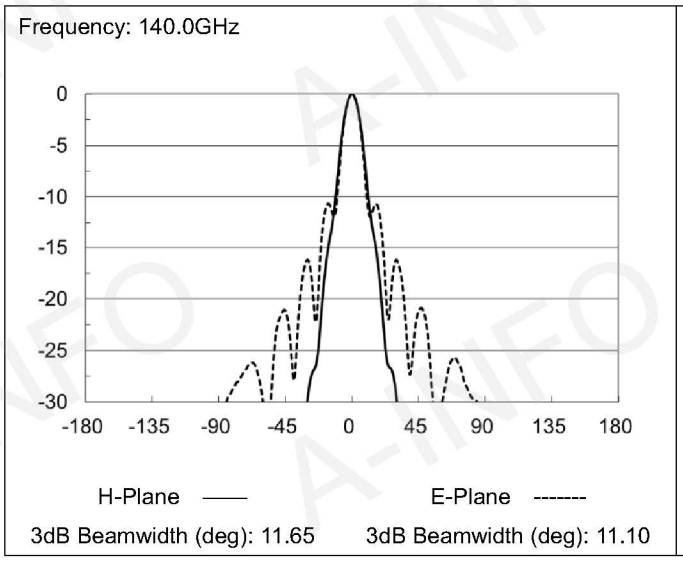


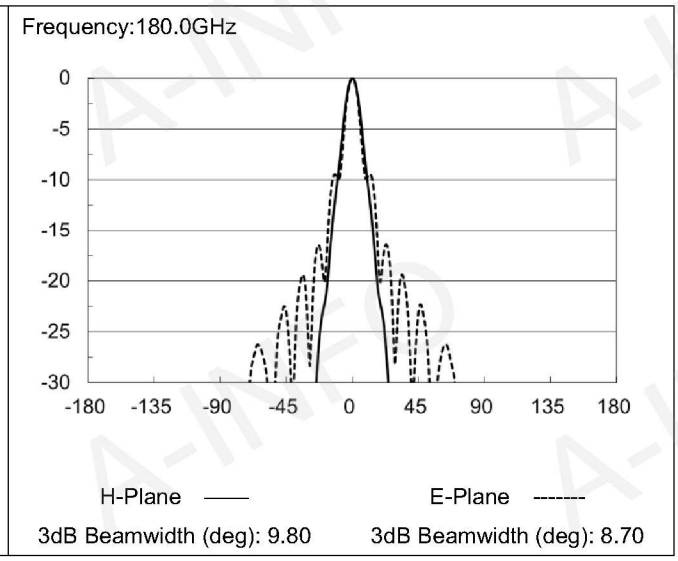


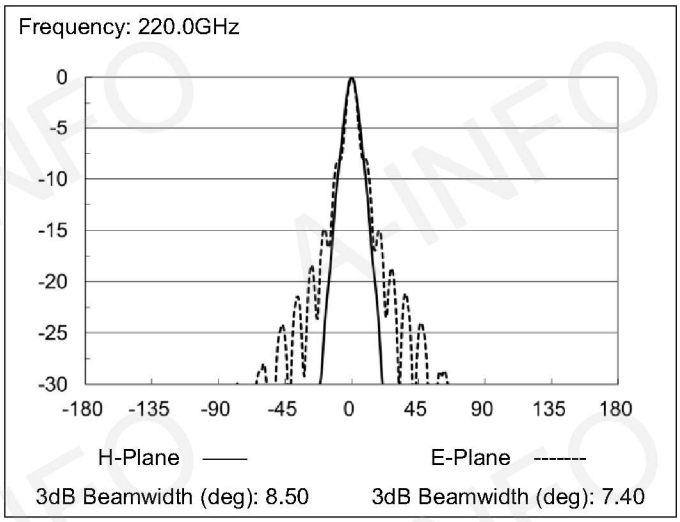
Frequency (GHz)	Gain (dB)	Antenna Factor (dB/m)
140	23.78	49.35
141	23.97	49.23
142	23.97	49.28
143	23.85	49.47
144	23.84	49.54
145	23.99	49.45
146	24.15	49.35
147	24.19	49.37
148	24.14	49.48
149	24.12	49.55
150	24.21	49.52
151	24.35	49.44
152	24.42	49.42
153	24.40	49.51
154	24.38	49.59
155	24.41	49.61
156	24.47	49.60
157	24.56	49.57
158	24.62	49.56
159	24.57	49.67
160	24.53	49.77
161	24.58	49.77
162	24.75	49.65
163	24.88	49.57
164	24.80	49.71
165	24.68	49.88
166	24.75	49.86
167	24.93	49.74
168	25.02	49.70
169	24.94	49.83
170	24.87	49.95
171	24.95	49.92
172	25.07	49.85
173	25.15	49.82
174	25.15	49.87
175	25.12	49.95
176	25.14	49.99
177	25.18	49.99
178	25.25	49.97
179	25.32	49.94

Frequency (GHz)	Gain (dB)	Antenna Factor (dB/m)
181	25.25	50.11
182	25.23	50.19
183	25.37	50.09
184	25.48	50.03
185	25.43	50.12
186	25.30	50.30
187	25.32	50.33
188	25.51	50.19
189	25.61	50.13
190	25.49	50.29
191	25.39	50.44
192	25.49	50.39
193	25.66	50.26
194	25.72	50.24
195	25.64	50.37
196	25.59	50.47
197	25.65	50.45
198	25.74	50.41
199	25.74	50.45
200	25.75	50.48
201	25.80	50.47
202	25.83	50.49
203	25.78	50.58
204	25.81	50.60
205	25.93	50.51
206	25.99	50.50
207	25.92	50.61
208	25.81	50.76
209	25.91	50.70
210	26.09	50.57
211	26.13	50.56
212	26.01	50.72
213	25.89	50.88
214	26.00	50.82
215	26.19	50.67
216	26.18	50.72
217	26.01	50.93
218	25.99	50.99
219	26.12	50.89
220	26.22	50.84

2. Pattern


Frequency: 140.0GHz
0
-5
-10
-15
-20
-25
-30
-180 -135 -90 -45 0 45 90 135 180
H-Plane ——
E-Plane -------
3dB Beamwidth (deg): 11.65
3dB Beamwidth (deg): 11.10


Frequency:180.0GHz
0
-5
-10
-15
-20
-25
-30
-180 -135 -90 -45 0 45 90 135 180
H-Plane ——
E-Plane -------
3dB Beamwidth (deg): 9.80
3dB Beamwidth (deg): 8.70


Frequency: 220.0GHz
0
-5
-10
-15
-20
-25
-30
-180 -135 -90 -45 0 45 90 135 180
H-Plane ——
E-Plane -------
3dB Beamwidth (deg): 8.50
3dB Beamwidth (deg): 7.40