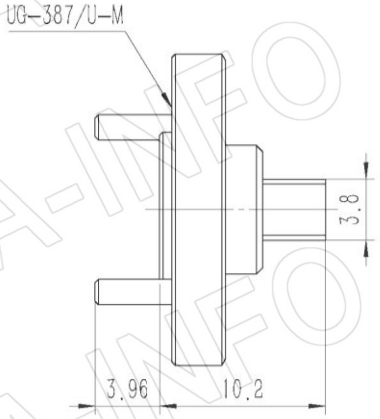
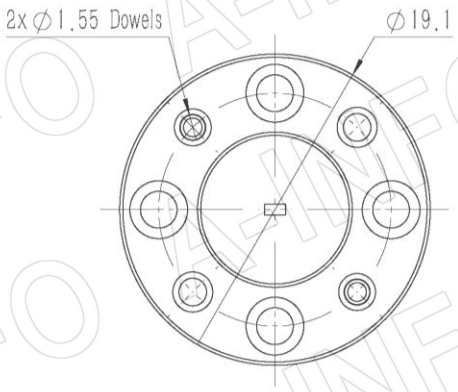
Technical Specification

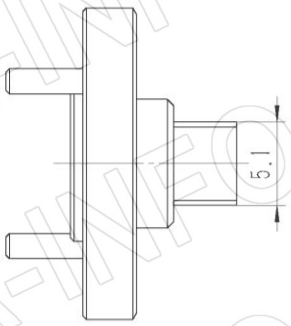
Frequency Range(GHz)	140.0 – 220.0
Waveguide	WR5
Gain(dBi)	15 Typ.
Polarization	Linear
3dB Beamwidth(deg)	E Plane: 23 Typ.
	H Plane: 26 Typ.
Cross Pol. Isolation(dB)	30 Typ.
VSWR	1.20:1 Typ.
Output	UG-387/U-M
Material	Cu
Size(mm)	19.1 x 19.1 x 10.2
Net Weight(Kg)	0.01 Around

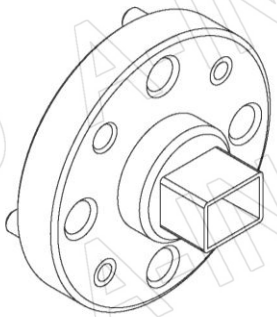
Outline Drawing (Size: mm)

UG-387/U-M Output (P/N: LB-5-15-A)









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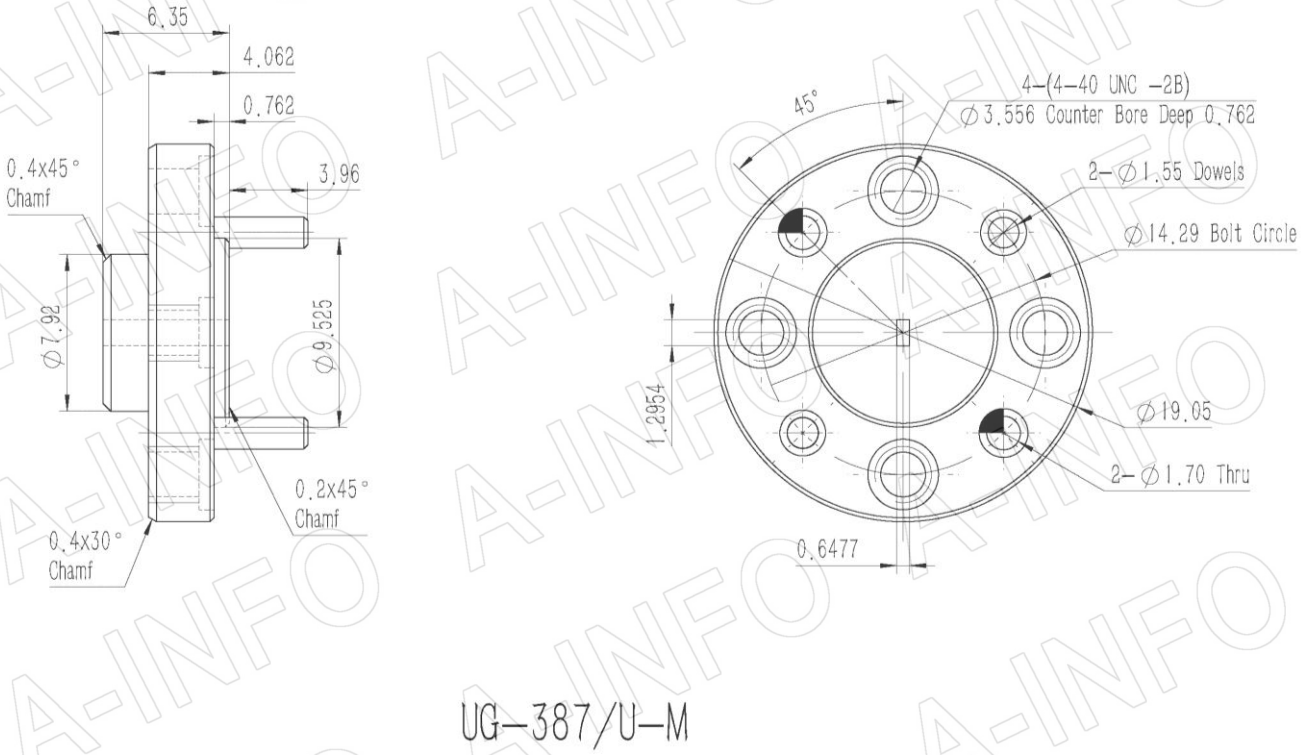
Flange Drawing (Size: mm)



UG-387/U-M

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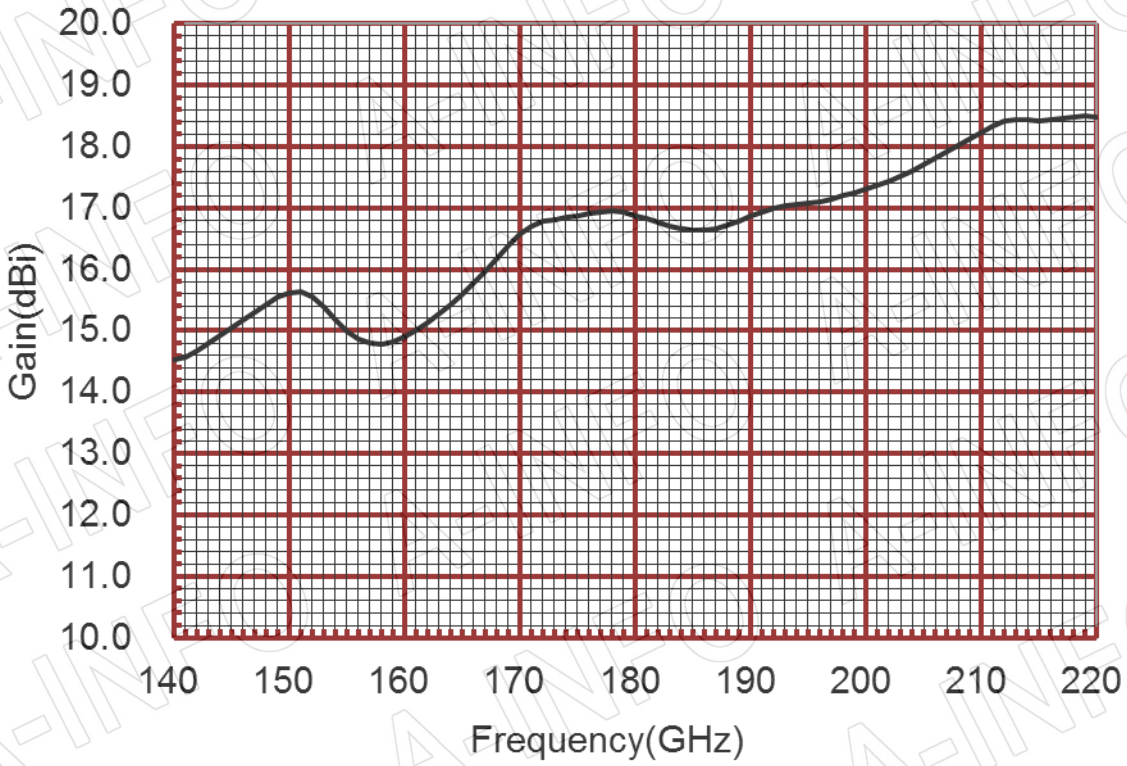
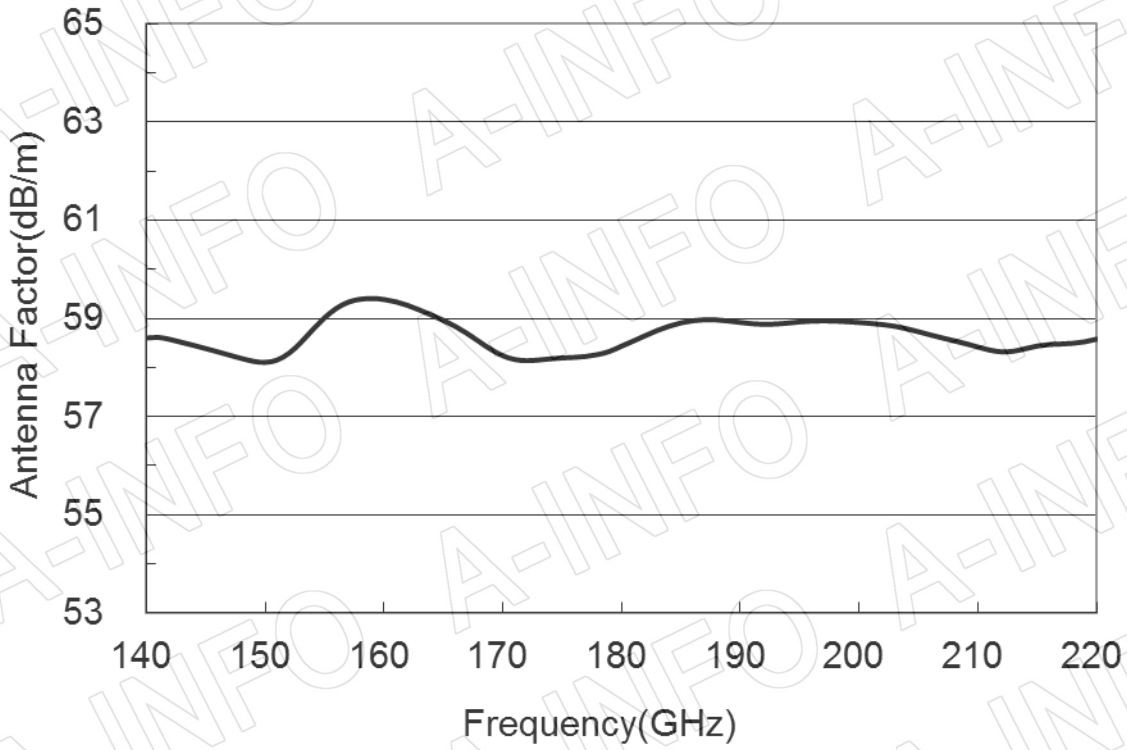
Test Results

1. Gain & Antenna Factor





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Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
140	14.53	58.60
141	14.58	58.61
142	14.68	58.57
143	14.80	58.51
144	14.93	58.45
145	15.05	58.39
146	15.18	58.32
147	15.30	58.25
148	15.43	58.18
149	15.55	58.13
150	15.63	58.11
151	15.64	58.15
152	15.55	58.29
153	15.39	58.51
154	15.19	58.77
155	15.00	59.02
156	14.86	59.21
157	14.79	59.33
158	14.79	59.39
159	14.83	59.41
160	14.91	59.39
161	15.01	59.34
162	15.13	59.27
163	15.28	59.17
164	15.44	59.07
165	15.60	58.96
166	15.77	58.84
167	15.97	58.69
168	16.19	58.53
169	16.40	58.37
170	16.58	58.24
171	16.71	58.16
172	16.78	58.14
173	16.82	58.15
174	16.84	58.18
175	16.87	58.20
176	16.91	58.21
177	16.94	58.23
178	16.95	58.27
179	16.94	58.33
180	16.88	58.44

Frequency (GHz)	Gain (dBi)	Antenna Factor (dB/m)
181	16.82	58.54
182	16.76	58.65
183	16.70	58.76
184	16.66	58.84
185	16.64	58.91
186	16.65	58.95
187	16.67	58.97
188	16.72	58.97
189	16.79	58.95
190	16.87	58.92
191	16.94	58.89
192	17.00	58.88
193	17.03	58.89
194	17.06	58.91
195	17.08	58.93
196	17.11	58.95
197	17.15	58.95
198	17.20	58.95
199	17.25	58.93
200	17.31	58.92
201	17.38	58.90
202	17.44	58.88
203	17.52	58.84
204	17.61	58.79
205	17.72	58.73
206	17.82	58.66
207	17.93	58.60
208	18.03	58.55
209	18.13	58.48
210	18.24	58.42
211	18.34	58.36
212	18.42	58.32
213	18.44	58.33
214	18.43	58.39
215	18.42	58.44
216	18.43	58.47
217	18.46	58.48
218	18.48	58.49
219	18.49	58.53
220	18.48	58.58

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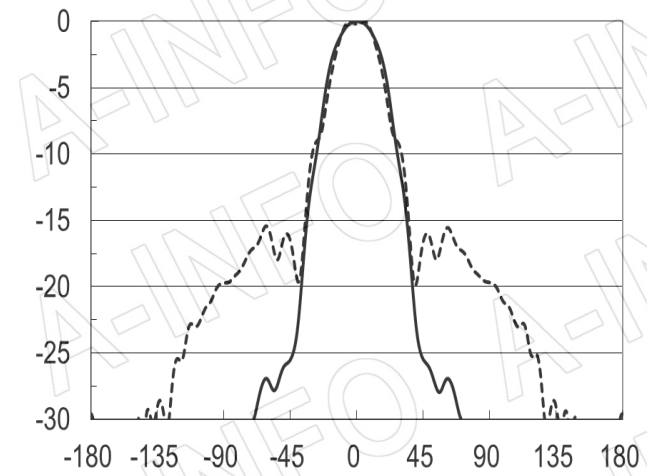
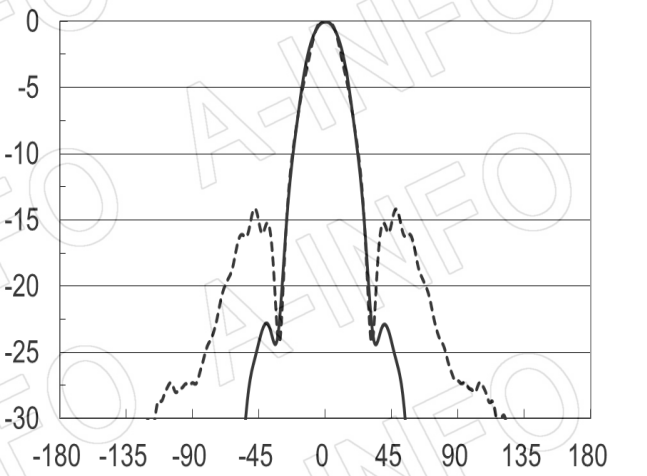
2. Pattern

Frequency: 140.0GHz



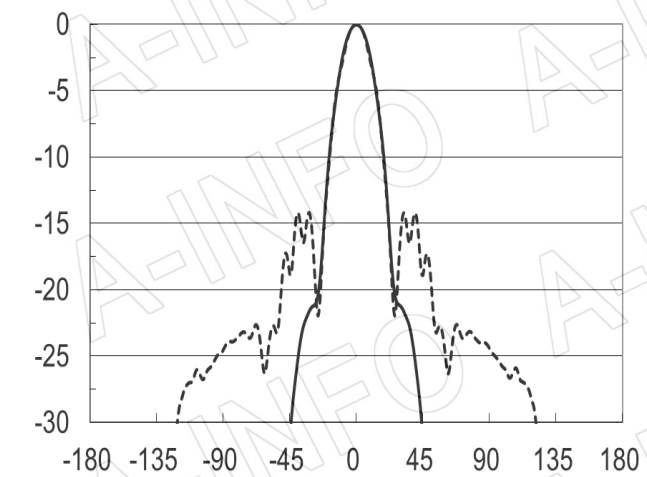
3dB Beamwidth (deg): 34.52 3dB Beamwidth (deg): 31.10

Frequency: 180GHz



3dB Beamwidth (deg): 25.83 3dB Beamwidth (deg): 23.01

Frequency: 220.0GHz



3dB Beamwidth (deg): 20.83 3dB Beamwidth (deg):19.58

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