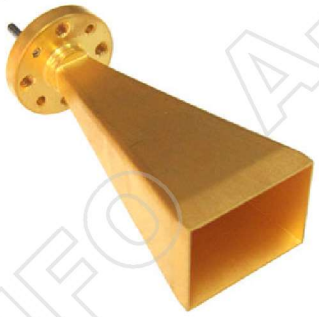
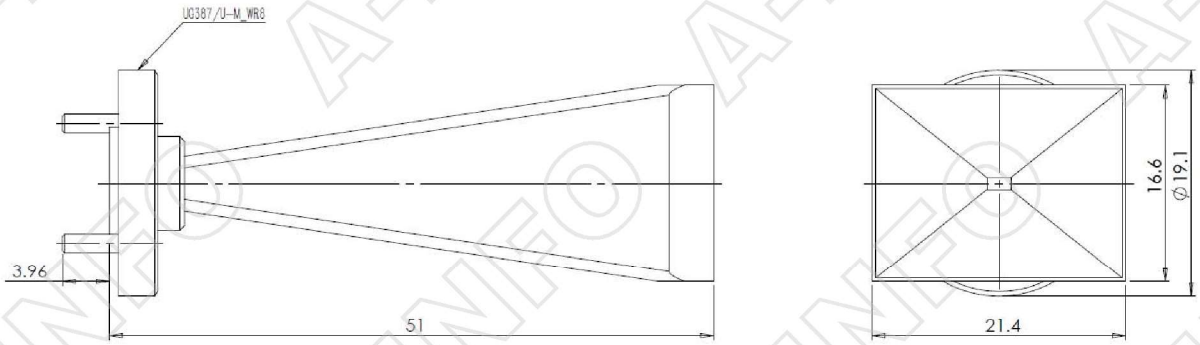
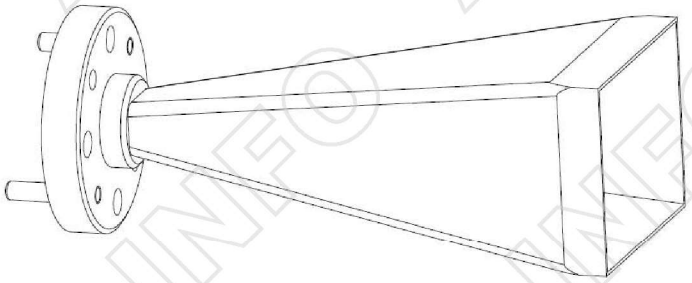
Technical Specification



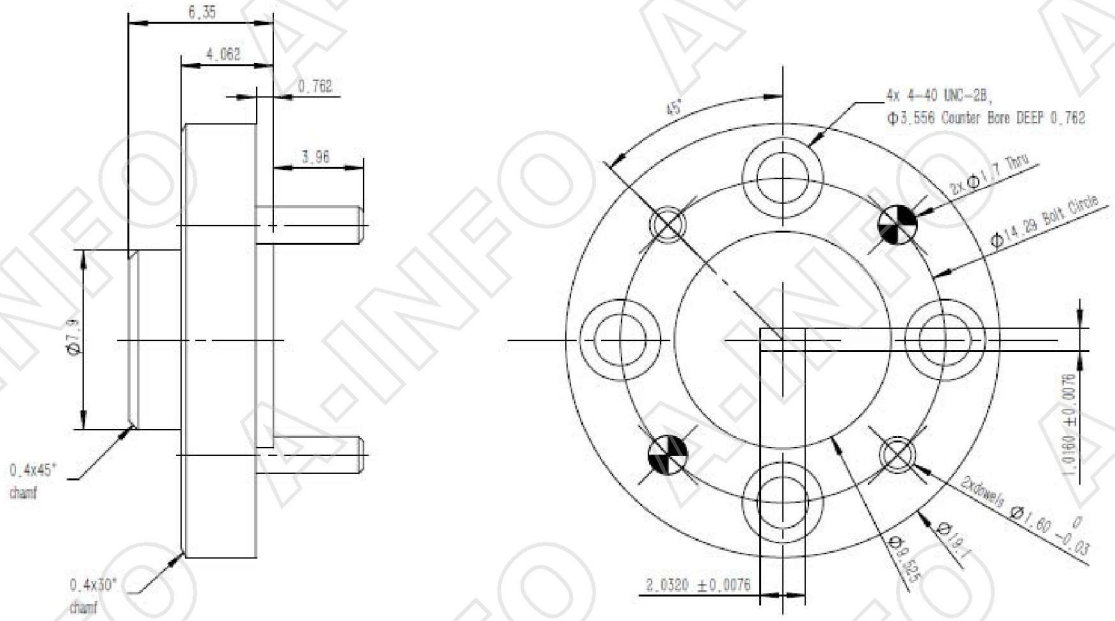
Frequency Range(GHz)	90.0 - 140.0
Gain(dB)	25 Typ.
3dB Beamwidth(deg)	10 Typ.
Waveguide	WR8
Material	Cu
Output	A Type: UG387/U-M_WR8
Size(mm) W x H x L	A Type: 21.4x16.6x51.0
Net Weight(Kg)	A Type: 0.03 Around

Outline Drawing (Size: mm)





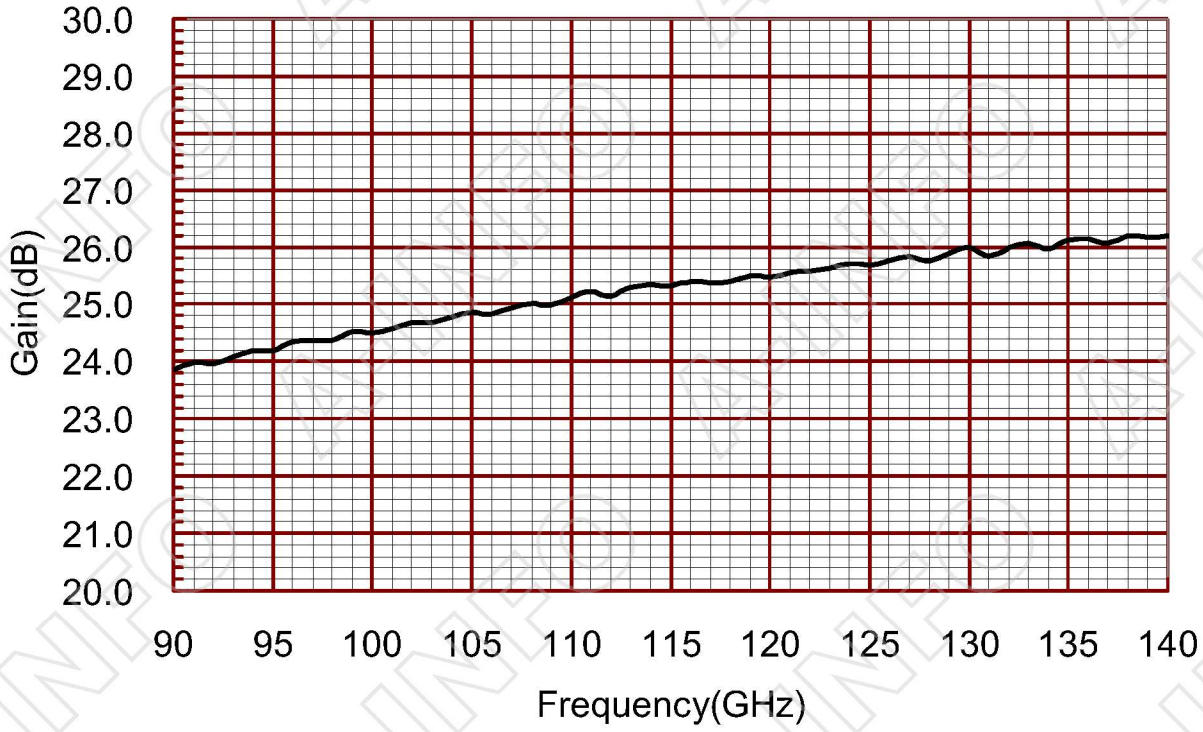
Flange Drawing (Size: mm)

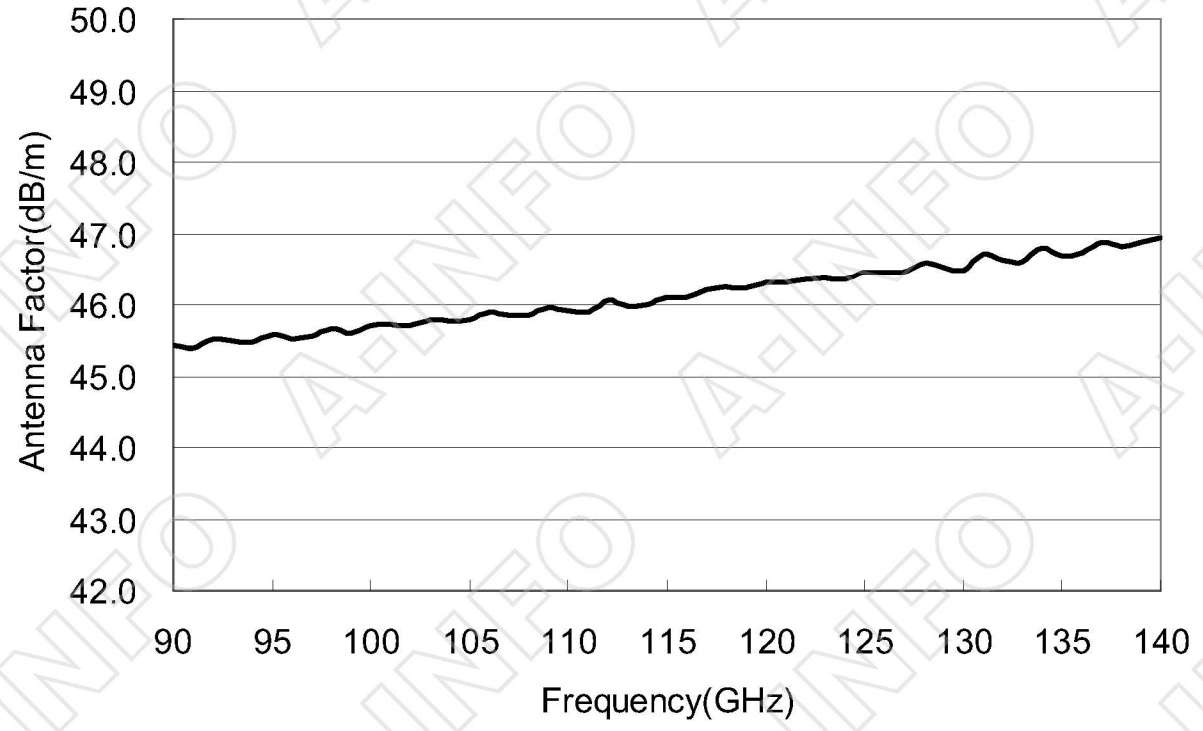


UG387/U-M_WR8

Test Results

1. Gain & Antenna Factor



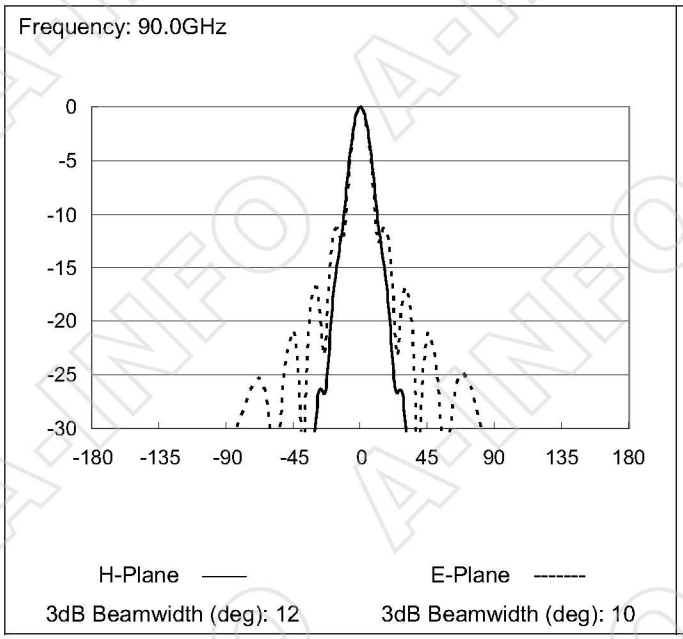


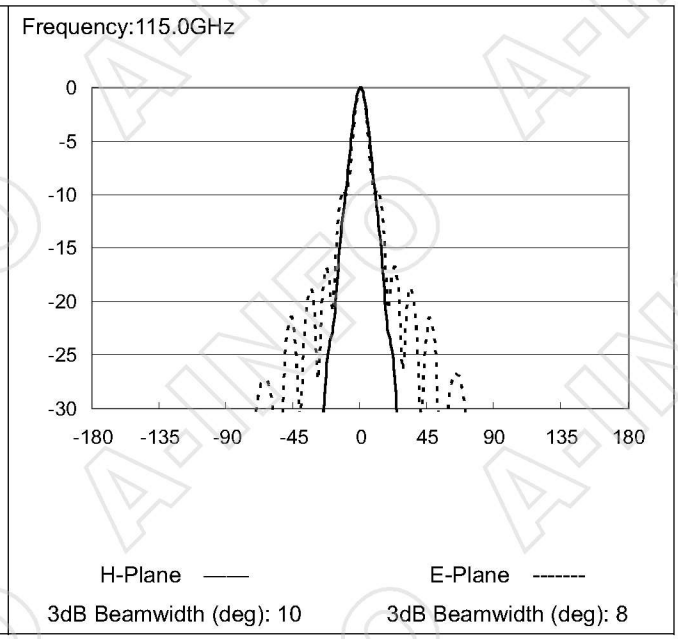
Frequency (GHz)	Gain (dB)	Antenna Factor (dB/m)
90	23.86	45.44
91	23.99	45.40
92	23.97	45.52
93	24.09	45.49
94	24.20	45.47
95	24.19	45.58
96	24.34	45.52
97	24.38	45.56
98	24.37	45.66
99	24.53	45.59
100	24.51	45.70
101	24.58	45.72
102	24.68	45.71
103	24.67	45.80
104	24.78	45.77
105	24.85	45.78
106	24.83	45.89
107	24.94	45.85
108	25.02	45.85
109	25.00	45.96
110	25.13	45.91
111	25.23	45.89
112	25.14	46.06
113	25.28	45.99
114	25.35	46.00
115	25.31	46.11

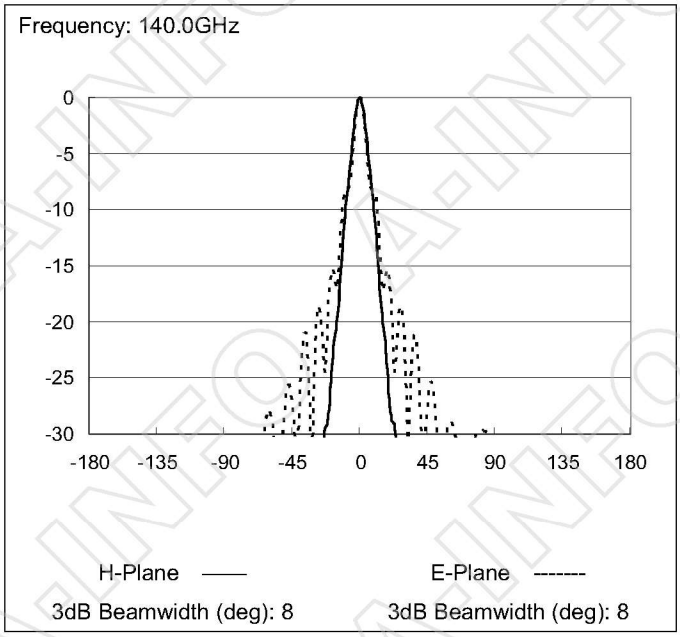
Frequency (GHz)	Gain (dB)	Antenna Factor (dB/m)
116	25.39	46.11
117	25.37	46.21
118	25.40	46.25
119	25.50	46.23
120	25.48	46.31
121	25.55	46.32
122	25.59	46.35
123	25.63	46.38
124	25.72	46.36
125	25.69	46.45
126	25.75	46.47
127	25.83	46.45
128	25.76	46.59
129	25.89	46.54
130	26.00	46.49
131	25.84	46.72
132	26.00	46.62
133	26.07	46.62
134	25.96	46.80
135	26.12	46.70
136	26.15	46.73
137	26.06	46.89
138	26.18	46.82
139	26.18	46.89
140	26.19	46.94

A-INFO

2. Pattern


Frequency: 90.0GHz
0
-5
-10
-15
-20
-25
-30
-180 -135 -90 -45 0 45 90 135 180
H-Plane ——
E-Plane -------
3dB Beamwidth (deg): 12
3dB Beamwidth (deg): 10


Frequency:115.0GHz
0
-5
-10
-15
-20
-25
-30
-180 -135 -90 -45 0 45 90 135 180
H-Plane ——
E-Plane -------
3dB Beamwidth (deg): 10
3dB Beamwidth (deg): 8


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): 8
3dB Beamwidth (deg): 8