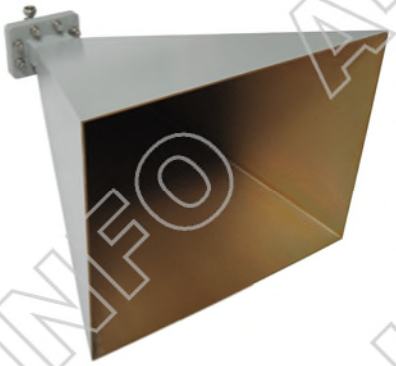
A-INFO

LB-187-20
3.95 - 5.85GHz Standard Gain Horn Antenna

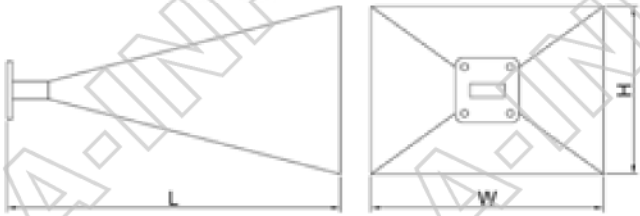
Technical Specification



Frequency Range(GHz)	3.95 - 5.85
Gain(dB)	20 Typ.
3dB Beamwidth(deg)	18 Typ.
Waveguide	WR187
Material	Al
Output	A Type: FDP48 C Type: N-F or SMA-F
Size(mm) W x H x L	A Type: 274x212x350 C Type: 274x212x404
Net Weight(Kg)	A Type: 1.3 Around C Type: 1.5 Around

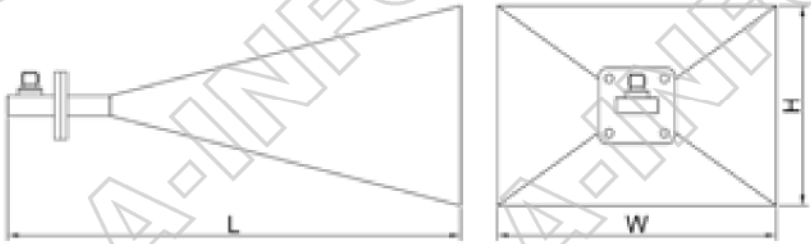
Outline Drawing (Size: mm)

A Type



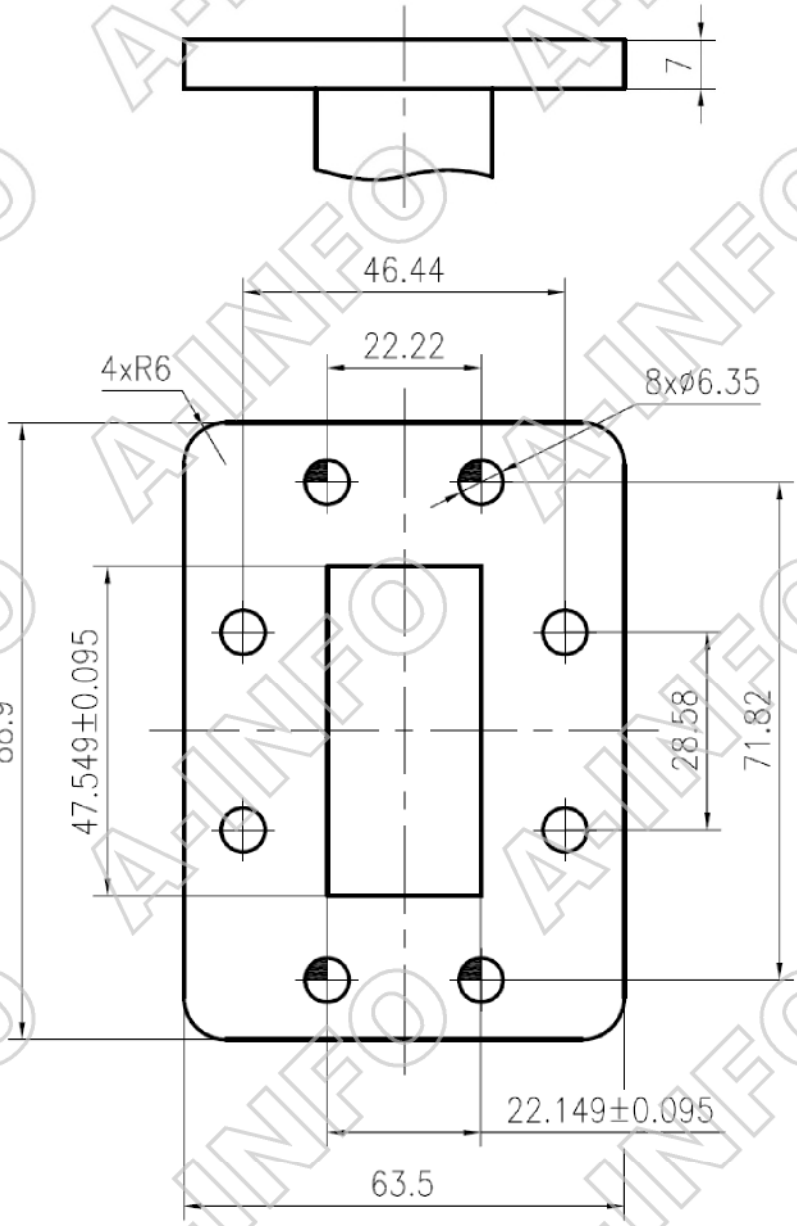
W x H x L: 274x212x350

C Type



W x H x L: 274x212x404

Flange Drawing (Size: mm)



FDP48

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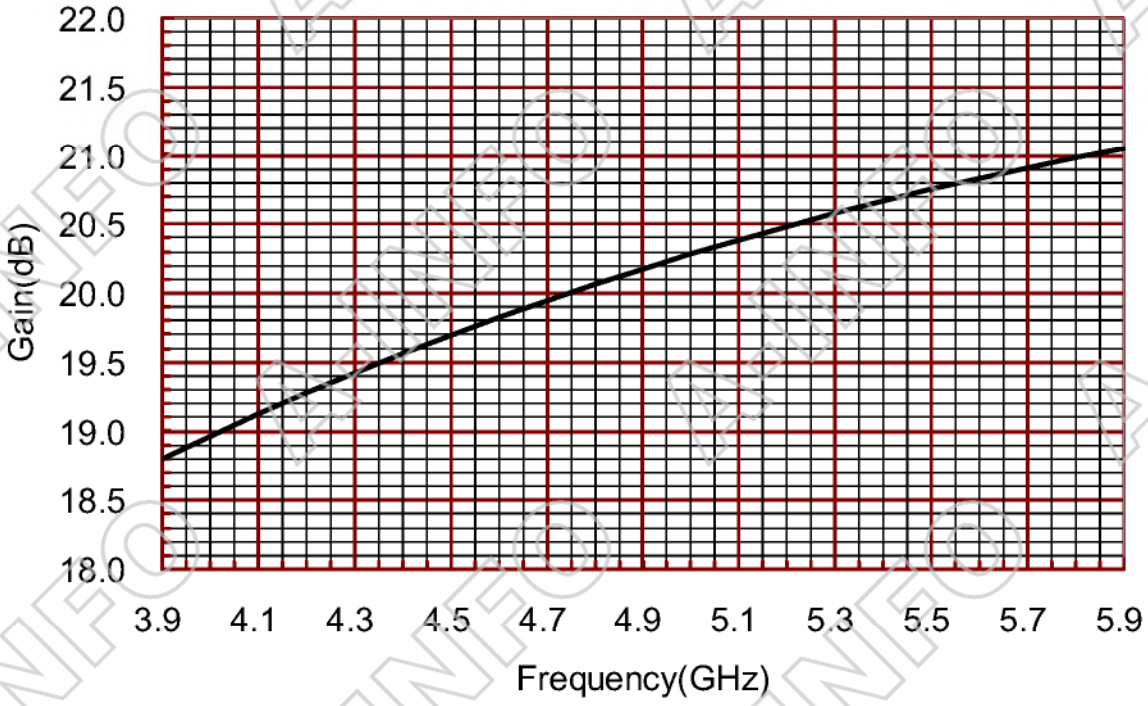
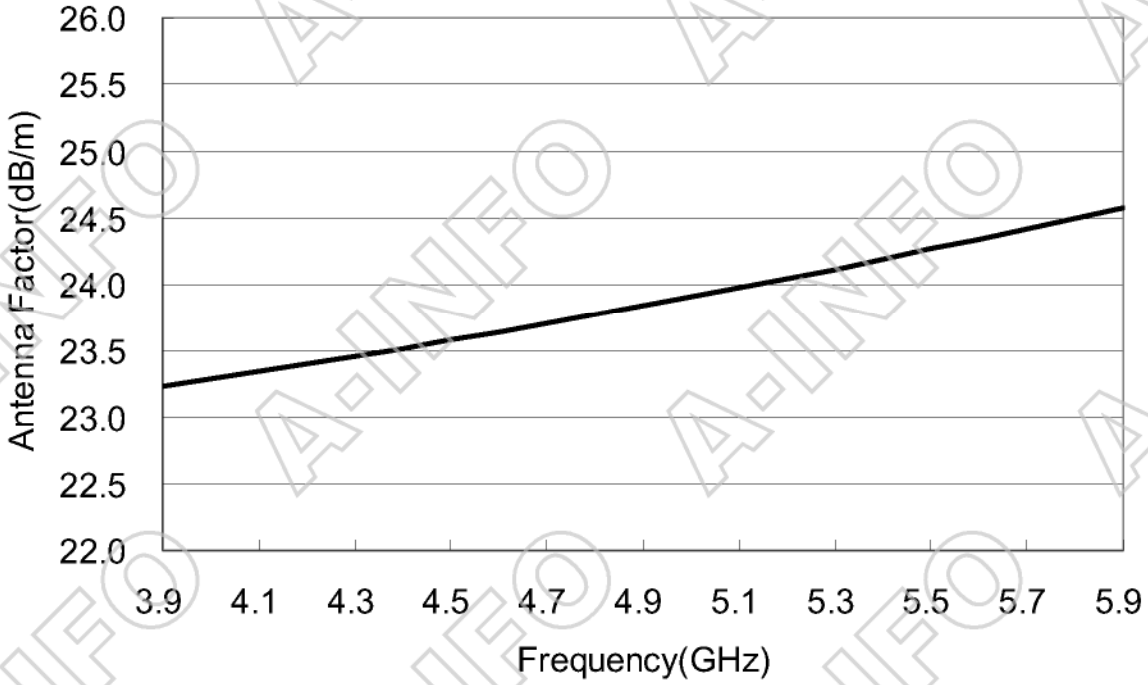
Test Results

1. Gain and Antenna Factor





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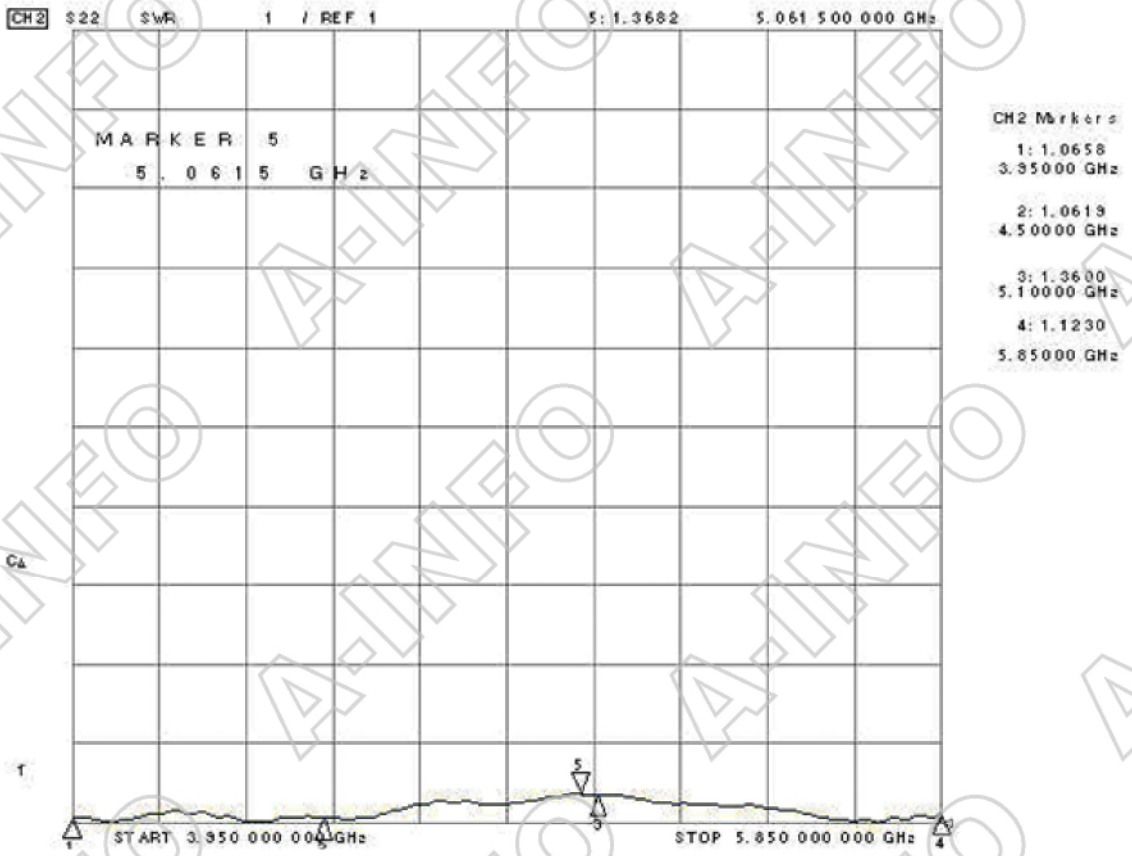
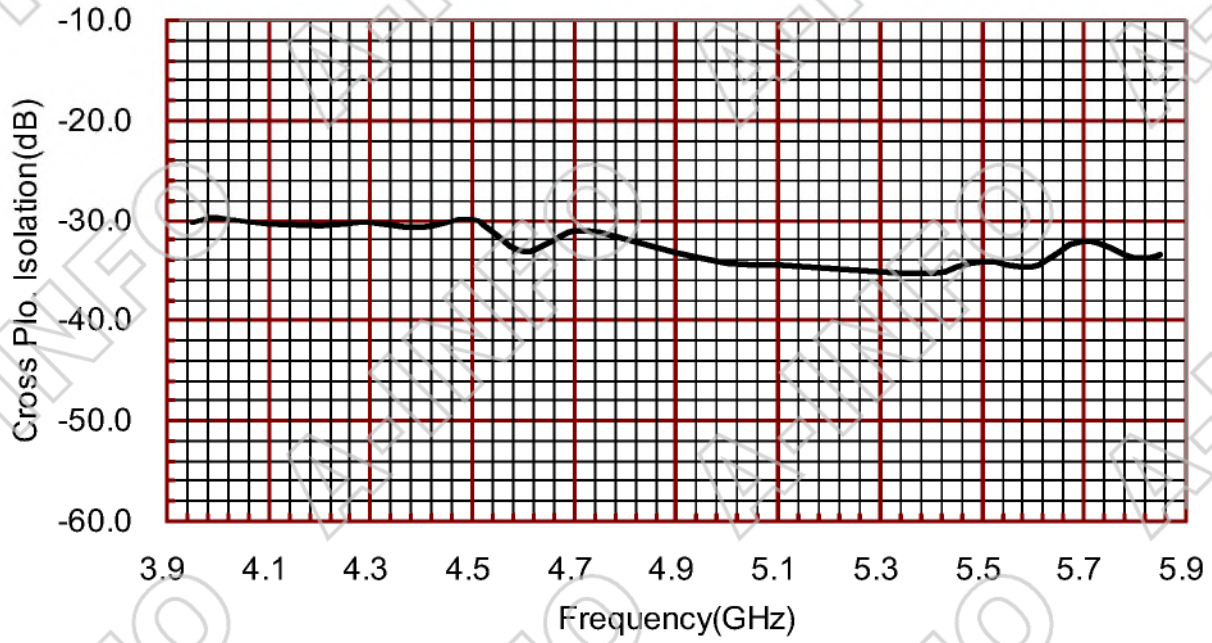
Frequency (GHz)	Gain (dB)	Antenna Factor (dB/m)
3.9	18.80	23.23
4.0	18.97	23.28
4.1	19.13	23.34
4.2	19.28	23.40
4.3	19.42	23.46
4.4	19.56	23.52
4.5	19.70	23.58
4.6	19.82	23.64
4.7	19.95	23.70
4.8	20.06	23.77
4.9	20.18	23.84

Frequency (GHz)	Gain (dB)	Antenna Factor (dB/m)
5.0	20.28	23.91
5.1	20.39	23.98
5.2	20.48	24.05
5.3	20.58	24.12
5.4	20.67	24.19
5.5	20.75	24.27
5.6	20.83	24.34
5.7	20.91	24.42
5.8	20.98	24.50
5.9	21.05	24.58

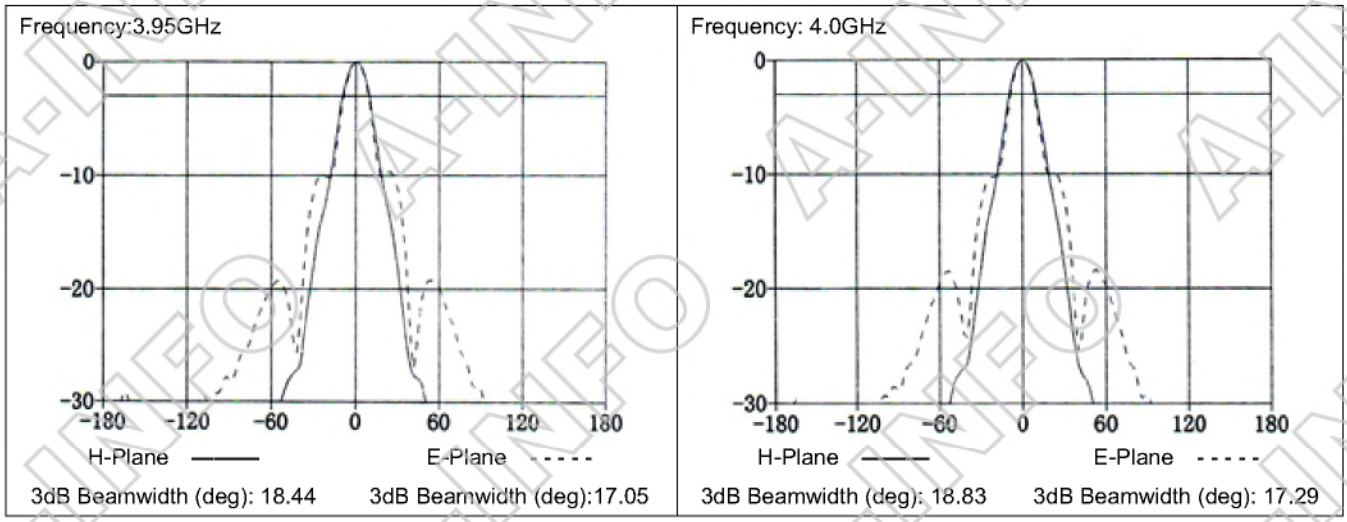
2. VSWR



3. Cross Polarization Isolation



4. Pattern



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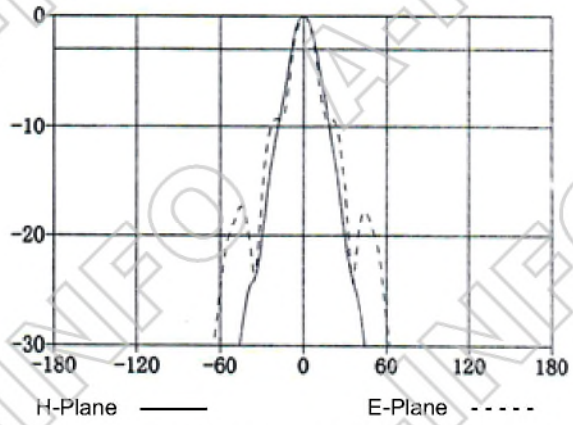
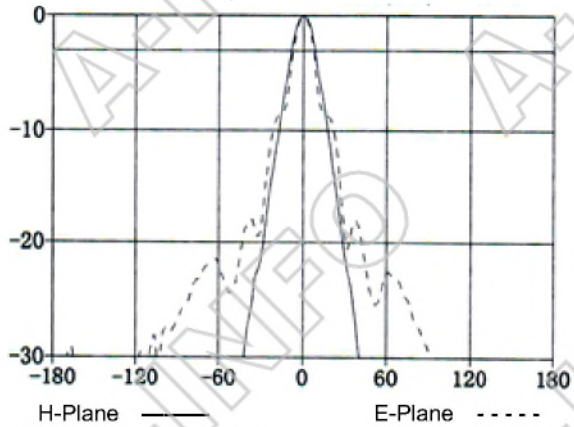
Frequency: 4.5GHz



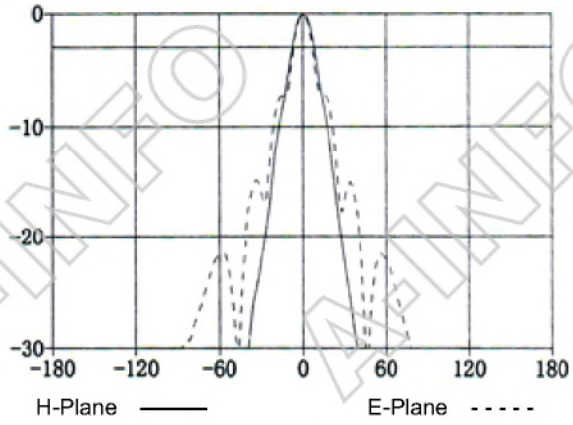
3dB Beamwidth (deg): 17.54 3dB Beamwidth (deg):15.28

Frequency: 5.0GHz



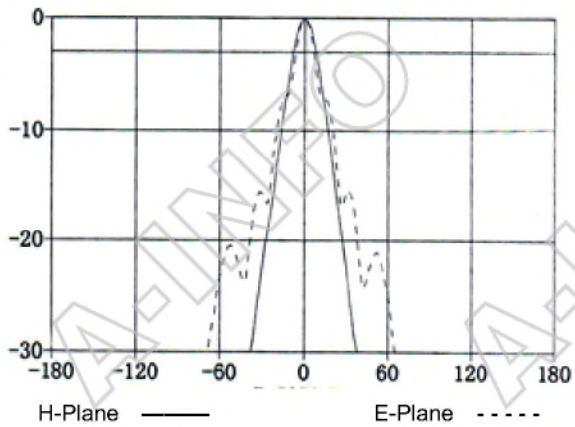
3dB Beamwidth (deg): 16.62 3dB Beamwidth (deg): 14.09

Frequency: 5.5GHz



3dB Beamwidth (deg): 15.51 3dB Beamwidth (deg): 13.33

Frequency: 5.85GHz



3dB Beamwidth (deg): 15.92 3dB Beamwidth (deg): 12.55

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