

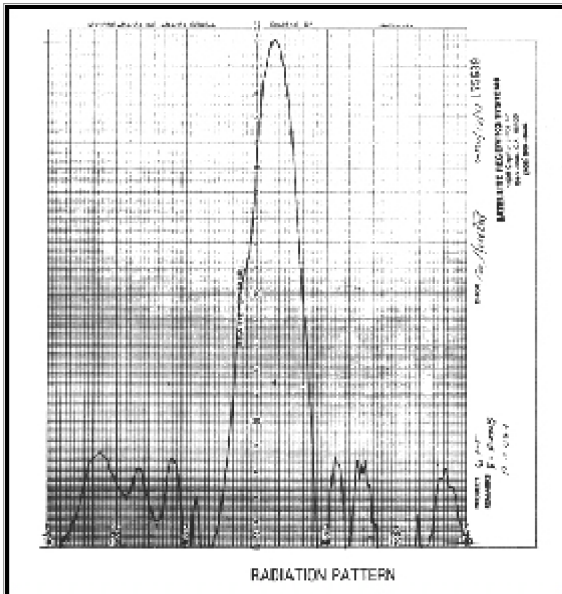


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Prime Focus - Specifications

Aperture Efficiency

(Click on the image to Enlarge)



Radiation Pattern for 6' Dish

1.2 M 4'

- Weight: 9 #
- Thickness: .050
- F/D Ratio: .45
- KU Gain @ 12 Gig. @ 71%: 42.2 db
- Wind Force @ 60° @ 100 MPH: 600 lbs.
- C-Band Measured Gain @ 4 Ghz: 33.6 db

1.5 M 5'

- Weight: 14 #
- Thickness: .050
- F/D Ratio: .37
- KU Gain @ 12 Gig. @ 71%: 44.2 db
- Wind Force @ 60° @ 100 MPH: 940 lbs.
- C-Band Measured Gain @ 4 Ghz: 34.6 db

1.8 M 6'

- Aperture Efficiency K Band - 70%
- KU Measured Gain @ 12 Ghz: 45.6 db.
- Weight: 25 #
- Area: 28.27 sq. ft.
- Material: 3003
- F/D Ratio: .3
- Wind Force @ 60° @ 100 MPH: 1350 lbs. or 40 lbs./sq. ft.
- Antenna Noise at >>45 degree look angle = 43 deg./K
- C-Band Measured Gain @ 4 Ghz: 36.1 db

As an OEM Manufacturer, DH Satellite can produce dishes to the exact size, thickness, and edge design required. Mounting hardware and feed supports available.

Beamwidth (3.0 db) = 0.9 degrees. (E-plane)

= 1.0 degrees. (H-plane)

| | |
|---------------------|--------------------------|
| Beamwidth (10.0 db) | = 1.6 degrees. (E-plane) |
| | = 1.5 degrees. (H-Plane) |
| Sidelobe | = 1.4 degrees. (E-plane) |
| All Sidelobes | > -26 dbc. |

SPECIFICATIONS

| Antenna Solid Aluminum 1 piece | 1.2 Meter | 1.8 Meter | 2.4 Meter | 3.0 Meter (.090) | 3.3 Meter | 3.7 Meter (57.6 F/L) | 3.8 Me |
|-----------------------------------|--------------|-------------|------------|---------------------|------------|-------------------------|-----------|
| C Band Gain @ 4 GHZ | 32.6 db | 36.1 db | 38.6 db | 40.6 db | 41.5 db | 42.3 db | 42.5 c |
| Ku Band Gain @ 12 GHZ | 42.0 db | 45.6 db | 48.2 db | 49.9 db | 50.8 db | 51.1 db | 51.8 c |
| Beamwidth -3° db 4 GHZ | 4° | 2.8° | 2.1° | 1.7° | 1.5° | 1.4° | 1.4° |
| Beamwidth -3° db 12 GHZ | 1.4° | .95° | .7° | .55° | .52° | .48° | .48° |
| Isolation Port - Port db | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Antenna Characteristics Physical | | | | | | | |
| Weight Raw | 9# | 25# | 60# | 102# | 168# | 207# | 215# |
| Size Pre-Spun | 48" | 72" | 96" | 120" | 132" | 148" | 152" |
| Size Post-Spun | 46.25" | 69.5" | 94" | 118" | 129" | 142.25" | 148" |
| Depth | 6" | 13.25" | 15" | 22" | 26.25" | 20.5" | 23" |
| Area | 12.5 sq. ft. | 28.3 sq ft. | 50 sq. ft | 78.5 sq. ft. | 95 sq. ft. | 113 sq. ft. | 121 sq |
| Focal Length – F/D Ratio | 22" - .45 | 22" - .3 | 36" - .375 | 36" - .3 | 36" - .28 | 57.6" - .4 | 57.6" - . |
| Wind Load Survival | 125 mph | 125 mph | 125 mph | 125 mph | 125 mph | 125 mph | 125 m |
| Operational @ 4 GHZ | 75 mph | 75 mph | 75 mph | 75 mph | 75 mph | 75 mph | 75 mp |
| Operational @ 12 GHZ | 60 mph | 60 mph | 60 mph | 60 mph | 60 mph | 60 mph | 60 mp |

<http://www.SatelliteDish.com/CATALOG.htm>