

Directional Antenna Information

SRI International's "The Dish" Antenna Facility

Diameter: 60 ft

F/D: 0.4

K (Beam Width Factor): 66.96 (Edge Illumination = -10dB)

Beam width between the first nulls is: 2.399deg

Beam width of the half power points is: 1.2deg

Efficiency: 55%

Gain of the antenna: 42.282dB

Subtended angle of the feed is: 128.022deg

United States Naval Academy Satellite Lab

Diameter: 39 ft

F/D: 0.35

K (Beam Width Factor): 66.96 (Edge Illumination = -10dB)

Beam width between the first nulls is: 3.691deg

Beam width of the half power points is: 1.846deg

Efficiency: 55%

Gain of the antenna: 38.54dB

Subtended angle of the feed is: 142.151deg

4' Reflector for use in mobile ground station configuration

Diameter: 4 ft

F/D: 0.375

K (Beam Width Factor): 66.96 (Edge Illumination = -10dB)

Beam width between the first nulls is: 35.989deg

Beam width of the half power points is: 17.994deg

Efficiency: 55%

Gain of the antenna: 18.76dB

Subtended angle of the feed is: 134.76deg