

Model 470027 Array Antenna

Radar and RF Microwave
Flat Plate Array Antennas

COBHAM

2015 Data Sheet

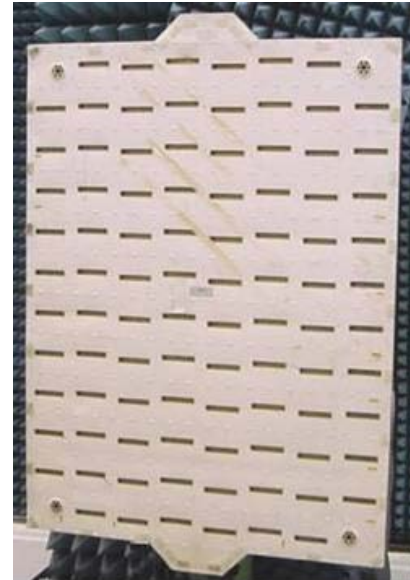
The most important thing we build is trust

Features:

- Lightweight
- Maximum contour gain

Description:

Circular beam antenna used on a communication spacecraft to provide transmission at S-band frequencies over the designated area. Constructed of brazed aluminum, this antenna provides maximum contour gain and minimum weight.



Specifications

Frequency Range	1.672 GHz-1.695 GHz
Size (inches)	25.2 x 27.9
Weight	10 Lbs.
Coverage Area	Inner Circle with 12.4° diameter Outer Circle with 17.8° diameter
Gain	17.5° dBi min. for the Inner Circle 16.5° dBi min. for the Outer Circle
Gain Variations	2 dB max. within the Inner Circle 3 dB max. within the Outer Circle
Polarization	Horizontal
Cross Polarization	Greater than 33 dB
VSWR	1.25:1 max.
Power Handling	100 W continuous power

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