

Model 470043 Array Antenna

Radar and RF Microwave
Flat Plate Array Antennas

COBHAM

2015 Data Sheet

The most important thing we build is trust

Features:

- Flat Radiating Plate
- RF Waveguide Manifold
- Input/Output Flange
- RF Injection Feed



Description:

X-Band sum aperture array used in airborne radar applications where wide bandwidth and compact size are required.

Specifications

Frequency Range		9.4 GHz-10.0 GHz
Size (inches)		36 x 11 x 2.5
Weight		10 Lbs.
Gain		32.5 dB for 9.525-9.875 GHz 32.0 dB for 9.4-9.525 GHz and 9.875-10 GHz
Polarization		Horizontal
Sidelobe Values	E-Plane	-22 dB (-25 dB goal) for 9.7 GHz -18 dB for 9.525-9.875 GHz -16 dB for 9.4-9.525 GHz and 9.875-10 GHz
	H-Plane	-25 dB (-28 dB goal) for 9.7 GHz -20 dB for 9.525-9.875 GHz -14 dB for 9.4-9.525 GHz and 9.875-10 GHz
Beamwidth	E-Plane	2.2° (nominal)
	H-Plane	7.4° (nominal)
VSWR	WR-90 Ports	1.8:1 max for 9.525-9.875 GHz 2.01:1 max for 9.4-9.525 GHz and 9.875-10 GHz
	RF Injection Ports	1.5:1 max.
Power Handling		10 kW Peak at 5% duty cycle at 35,000 ft.

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