

12 dB, 1.9 - 2.7 GHz Patch Antenna

COBHAM

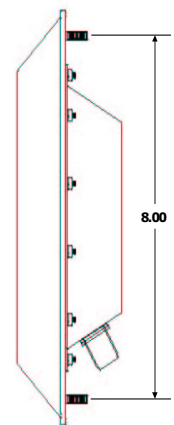
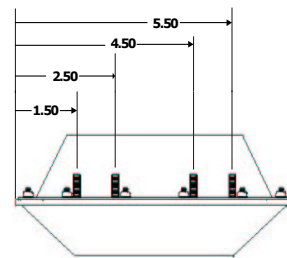
The most important thing we build is trust.

This antenna is a precision 12dBi Broadband Patch that covers 1.9 to 2.7 GHz in a sealed, weatherproof radome. It was designed, to either output RF directly or optionally an IF signal by internally mounting a GMS Block-Down Converter Card (BDCC). Model #: MAPS4V12070XX4 outputs RF directly thru a 50-Ohm Type N-FM Connector. Model #: MAPSGV120702E3 adds an internally mounted, 1.2 dB Noise Figure LNA with 21 dB of gain, GMS LNA Model #: PLSGK8S11. Model #: MAPS3V120698R2 include an internally mounted BDCC that limits the antenna/BDCC combo to 2.4 – 2.7 GHz. These units output an IF thru a 75-Ohm Type F-FM Connector. Multi-band systems are available as a special build (consult GMS sales).

This antenna is designed for broadband receivers and transmitters where wide bandwidth, high efficiency are key system parameters.

GMS also supplies this Antenna in a 360 Deg Array configuration for tracking applications with the Messenger Smart Receiver (MSR). Please Refer to the Messenger Antenna Array data sheet Document #; 100-DS0286X.

A pole-mount adapter kit is also available.



Physical (Mounting Dimensions in Inches)
Vertical Orientation Shown

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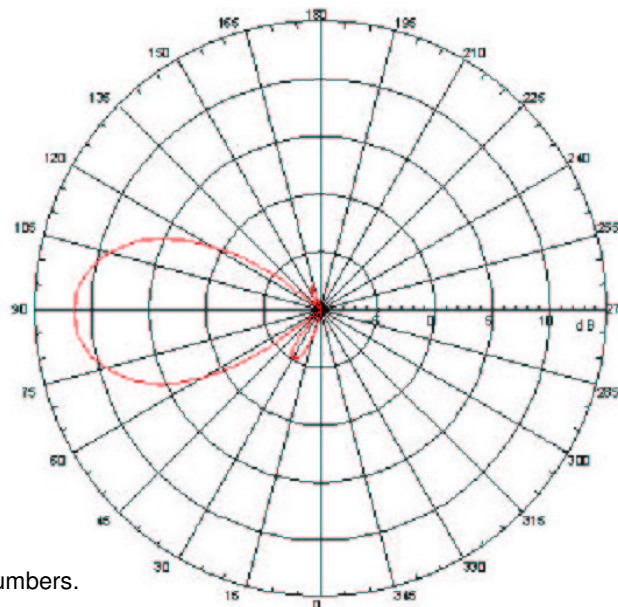


Electrical Specifications:

Frequency:* 1.9 – 2.7 GHz
Polarization: Linear
Gain:* 11.2 dBi @ 1.9 GHz
12 dBi @ 2.3 GHz
12.7 dBi @ 2.7 GHz
HPBW: Vert: 35°, Horiz: 76° @ 1.9 GHz
Vert: 30°, Horiz: 70° @ 2.3 GHz
Vert: 26°, Horiz: 64° @ 2.7 GHz
Z / VSWR:** MAPS412070XX4, 50 Ohms / <= 1.5:1
MAP # Last Digit 1,2,5: 75 Ohms / <= 1.5:1
Power:* 1 Watt (Max)
Connector: MAPS4V12070XX4 - Type 'N-FM'
** MAP # Last Digit 1,2,5 - Type 'F-FM'

Mechanical Specifications:

Weight:* 16 oz. (0.4536 kg)
Dimensions: 9.13" x 7.13" x 2.68"
(L x W x D) 23.19 cm x 18.11 cm x 6.8 cm
Construction: Polycarbonate Radome
Aluminum Ground Plane
Mounting: 8 each 10-32 Studs
Rating: Outdoor, Fixed or Mobile



Elevation Pattern

* Note: Antenna only

** Note: "?" get replaced with the actual numbers.