

## BMOY UHF Series Maximum Performance Yagi

The Black MAXRAD Optimized Yagi (BMOY) UHF antenna series consists of three models that cover UHF frequency bands ranging from 406 to 512 MHz without the need for tuning. Their seamless aluminum construction, with 360 degree welds surrounding the 3/8" elements and a powder coated finish, provide outstanding durability and superior performance in severe weather conditions. The BMOY features a type N termination located at the end of the boom for complete protection against humidity, acid rain or salt in environments located near the ocean. This design ensures the finest electrical connection and enhances the overall antenna performance. The BMOY antennas are supplied with a solid aluminum mounting clamp and stainless steel mounting hardware that allows mounting for horizontal or vertical linear polarization.

### General Specifications for BMOY UHF Series

**Radiator Material:**

3/8" Solid 6061-T6 Aluminum

**Termination:**

Type "N" Female

**Lightning Protection:**

DC Grounded

**Wind Survival:**

200 mph with no ice. It will survive up to 110 mph wind with 0.5" radial ice build-up before the boom yields.

**Maximum Mount Pipe Diameter:**

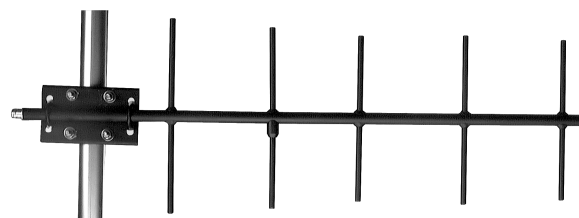
1-5/8"

**Maximum Power:**

150 watts

**Nominal Impedance:**

50 Ohms



**BMOY4065**

### Electrical Specifications

#### BMOY UHF Series, Maximum Performance Yagi

Model #	Frequency Range	Gain	Horizontal Beamwidth	Vertical Beamwidth	Front to Back Ratio	Bandwidth @ 1.5:1 VSWR
BMOY4065	406-440 MHz	9 dBd	52°	45°	> 15 dB	34 MHz
BMOY4405	440-480 MHz	9 dBd	52°	45°	> 15 dB	40 MHz
BMOY4705	470-512 MHz	9 dBd	52°	45°	> 15 dB	42 MHz

### Mechanical Specifications

#### BMOY UHF Series, Maximum Performance Yagi

Model #	Equivalent Flat Plate Area	Lateral Thrust @ 125 mph Wind	Bending Moment @ 125 mph Wind	Elements	Weight	Mounting Hardware (Included)	Boom Length	Boom Diameter
BMOY4065	.31 sq ft	24.2 lbs	32.4 ft-lbs	5	1.6 lbs	MYK17	34"	.75"
BMOY4405	.31 sq ft	24.2 lbs	32.4 ft-lbs	5	1.6 lbs	MYK17	34"	.75"
BMOY4705	.31 sq ft	24.2 lbs	32.4 ft-lbs	5	1.6 lbs	MYK17	34"	.75"