



PROSTAR SERIES

Proven performance, quality and reliability

Rugged construction

Directional patterns standard & custom

High power rating to achieve 5 megawatts

Custom electrical & mechanical beam tilt

Horizontal, circular & elliptical polarization

ELECTRICAL SPECIFICATIONS

Polarization	Horizontal, Elliptical, Circular
Power Rating	1 kW to 90 kW
Beam Tilt	As specified by customer
Null Fill	As specified by customer
Input Impedance	50 or 75 ohm
VSWR	1.1:1 or better across band





SELECTING YOUR SLOT ANTENNA

Compatible with DTV, NTSC and PAL Broadcasts

JA-LS: 1 kW

JAMPRO's LOW POWER slot antenna is designed with the needs of low power UHF broadcasters in mind. Aluminum construction ensures excellent weather resistance while resisting windload and weight on the tower. The unique design of the low power UHF slot antenna can be configured to provide varying levels of vertically polarized signal. The versatility of the slots allows them to be top, leg or face mounted.

JA-MS: 1 to 30 kW

JAMPRO's JA/MS is the harsh environment version of the JA/LS antenna. The JA/MS is also enclosed by white UV resistant radomes for added protection from the environment. The JA/MS is an excellent choice for low power UHF broadcasters located in areas with heavy air pollution or high salt content in the air.

JSL-SERIES: 5 to 40 kW

JAMPRO's Premium LOW POWER slot antenna, using marine brass, copper and virgin Teflon in construction, is the finest antenna of its type. This excellent antenna was designed from our medium power slot series with the same detail in manufacturing and rugged construction. Now, stations transmitting with lower power can find quality and performance in the JSL Series antenna.

JSM-SERIES: 30 to 70 kW

JAMPRO's Premium MEDIUM POWER slot antenna has been designed for performance. Detail in manufacturing and tuning for your pattern assures premium performance. The feed lines are pressurized for protection, and the slots are Radome sealed to protect the antenna from the environment. The finest quality marine brass, copper and virgin Teflon is used in the construction of the antenna. Computer modeling is used in pattern designs and the patterns are confirmed on our 7,000 ft. full field test range before the antenna is shipped. Test range measured performance and factory tuned before shipping give you the confidence - you are getting the finest antenna of its type available.

JSH-SERIES: 60 to 90 kW

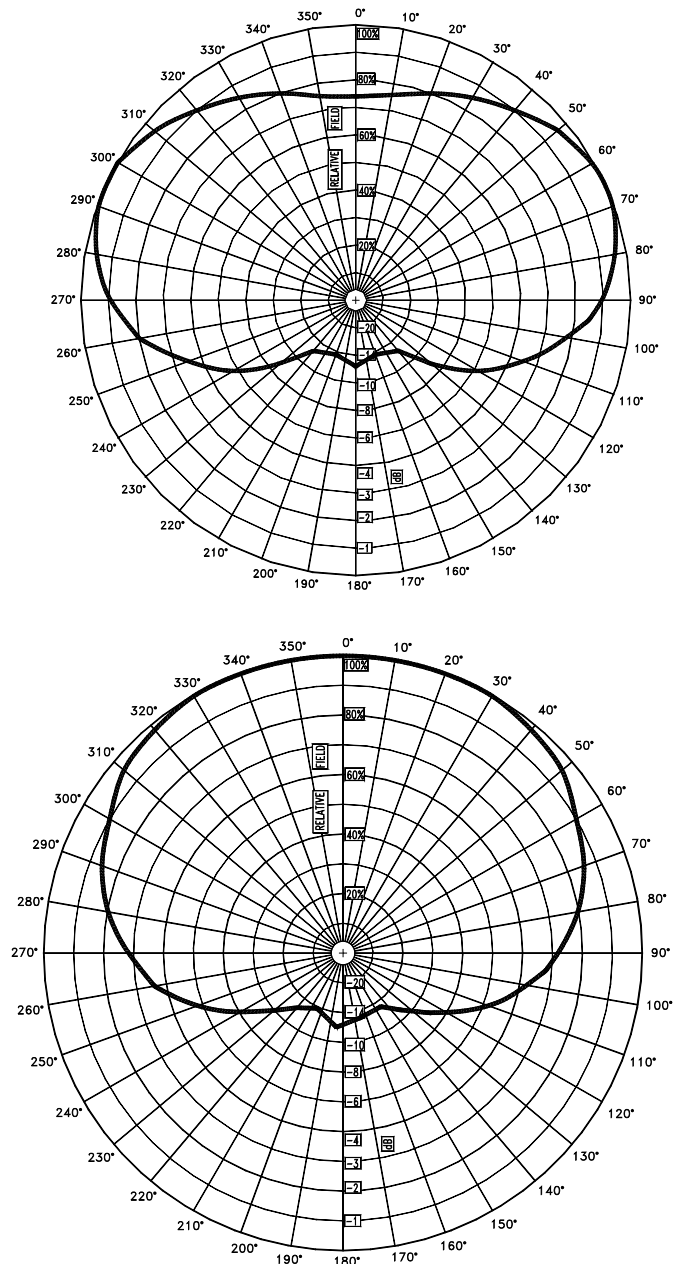
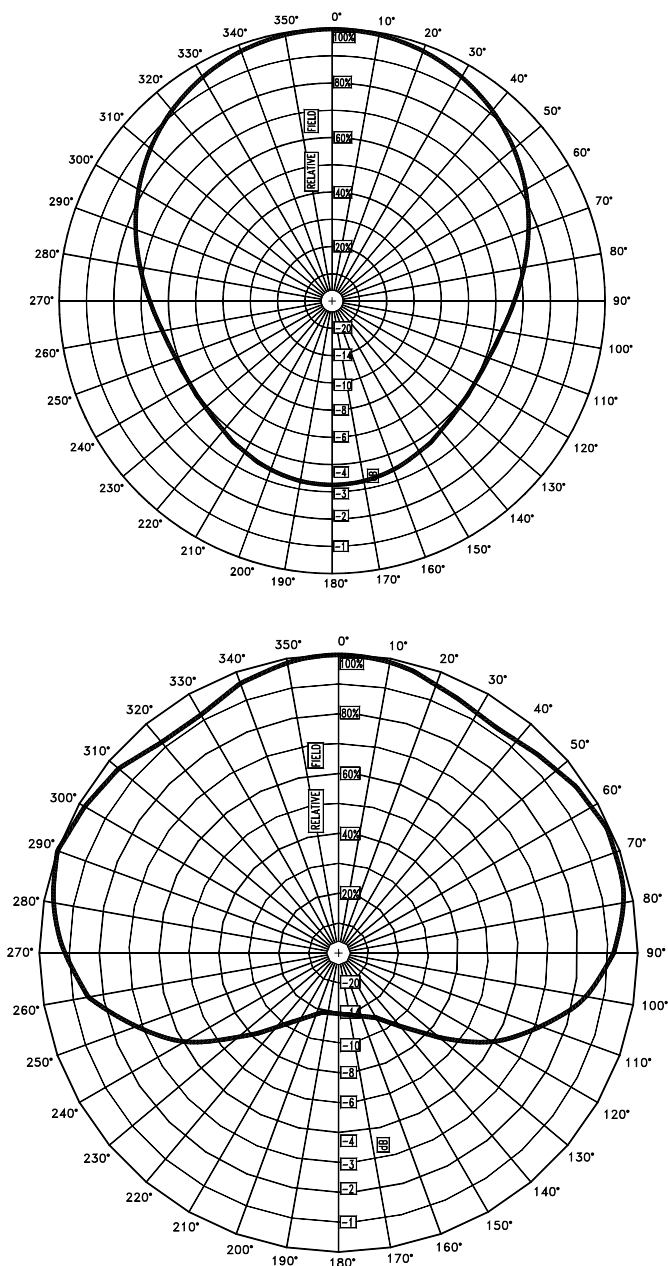
JAMPRO's Premium HIGH POWER slot antenna is Radome enclosed and environmentally sealed. The power rating of this antenna is conservative, and can be increased beyond that shown. The use of waveguide power dividing feed system will double the power rating of the antenna. The finest quality marine brass, copper and virgin Teflon is used in the construction of the antenna, and the Radome enclosure protects the antenna from environmental hazards. Computer modeling is used to design the pattern selected. The pattern is then optimized on our full field test range. The antenna is factory tuned and does not require field tuning when installed.

UHF SLOT ANTENNA



TYPICAL AZIMUTH PATTERNS (OVER 50 AVAILABLE)

A sample of the azimuth patterns offered for JAMPRO's Prostar slot antennas are shown. Variations of these patterns, as well as custom designed patterns, are available for any application. The free space azimuth patterns can be optimized for top mount, leg mount or face mounting on the tower. Top mount antennas include the support pole and must be specified as a top mount when requesting a quote.



UHF SLOT ANTENNA



The FCC will accept any antenna that duplicates the gain and pattern as specified in the Construction Permit filed by the station with the FCC. JAMPRO offers over 50 azimuth patterns for these slot antennas, all of which have been tested and measured on

JAMPRO's full-scale 7,000 ft. test range. All patterns are filed with the FCC and are available as "off the shelf" patterns. JAMPRO can match any pattern offered by any other manufacturer, providing more freedom and flexibility to the broadcaster.

Our engineers work with each customer to develop the most effective polarization, from a small percentage of elliptical polarization to full circular polarization. This flexibility could allow the station to have different patterns for horizontal and vertical polarizations, maximizing the station's coverage.

Electrical beam tilt to 2° is standard and available with gain reduction, and null fill to 15% is also standard. Properly configured beam tilt and null fill can substantially improve coverage of a station. In most cases, the maximum beam should be below the horizon so that 90% field is on the FCC Radio Horizon. Uniform 10% to 15% null fill will provide an optimum elevation pattern and a more uniform signal level between the horizon and the tower.

JAMPRO employs a staff of highly trained engineers and sales staff who will help you select the best antenna system for your application and design a pattern that best suits your coverage needs. Contact JAMPRO directly for assistance.

Note: Wind loads rating based on 50/33 PSF - 50 lbs. per sq. ft. for flat surfaces and 33 lbs. per sq. ft. for round surfaces. Weights do not include mounting brackets, feed lines or power dividers. Specifications for channels not shown are available upon request. Sample elevation patterns are shown without beam tilt and null fill.