

Enclosed Yagi Antenna Series

PCTEL's directional yagis can be used as bridge antennas between two networks or for point-to-point communications. They are field adjustable for vertical or horizontal polarization with matched principal plane beamwidths for optimum performance in either orientation. This design also provides improved front-to-back ratio and sidelobe suppression that reduces interference. All models feature a robust mounting structure for consistent performance regardless of weather conditions.

Features

- Field adjustable to allow vertical or horizontal polarity. Eliminates co-channel interference from neighboring radiators. Polarity markings molded on the antenna ensure installation in the correct orientation.
- Optional, articulating mount. Allows precise adjustment of the antenna both vertically and horizontally.
- All antennas include a robust mast mount bracket designed to withstand 125 mph wind.
- Matched principal plane beamwidths with excellent sidelobe suppression and cross-polarization rejection of more than 20 dB. Provides superior signal quality with enhanced gain performance and minimal interference from neighboring radiators.
- 30 dB front-to-back ratio permits less physical separation on the tower thus adding mounting flexibility at installation sites where space is limited.
- Attractive weather-proof radome constructed of UV resistant material. Provides robust and trouble-free use in harsh outdoor environments.



Technical Data

General Specifications: 2.4 GHz ISM enclosed yagi antenna series
Maximum Power: 5 watts
Polarization: Vertical or horizontal, linear (user adjustable)
Nominal Impedance: 50 ohms
VSWR: < 1.5:1
Termination: N, female is standard, NM optional
Mounting Method: Heavy duty yagi mounting bracket (included) permits mast mounting on masts up to 2" O.D. MYK18 adjustable wall/pipe mount allows 180° (included angle) azimuth and elevation adjustment (sold separately.) Stacking harnesses available to stack two yagis (sold separately.)



MYP24015PTNF or WISP24015PTNF



MYP24010PTNF



MYK18

RF/Electrical Specifications

Model	Frequency Range	Nominal Gain	Horizontal Beamwidth @ 1/2 Power	Vertical Beamwidth @ 1/2 Power	Front-to-Back Ratio
MYP24010PTNF	2.4-2.485 GHz	10 dBi	55°	55°	23 dB
MYP24014PTNF	2.4-2.485 GHz	14 dBi	30°	30°	30 dB
MYP24015PTNF	2.3-2.7 GHz	10 dBi	30°	30°	30 dB
MYP24015PTNM	2.3-2.7 GHz	10 dBi	30°	30°	30 dB
WISP24015PTNF	2.4-2.48 GHz	15 dBi	30°	30°	30 dB

Mechanical Specifications

Model	Length	Weight (Mass)	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area	Wind Survival	Cable
MYP24010PTNF	4.5" L x 3" OD (114 x 76 mm)	1 lb (0.5 kg)	5.8 lbs	0.060 ft ²	125 mph	3' (914.4 mm) coax
MYP24014PTNF	14" x 3" OD (356 x 76 mm)	1 lb (0.5 kg)	18.3 lbs	0.20 ft ²	125 mph	36" (914 mm) coax
MYP24015PTNF	14" x 3" OD (356 x 76 mm)	1 lb (0.5 kg)	18.3 lbs	0.20 ft ²	125 mph	18" (457 mm) coax
MYP24015PTNM	14" x 3" OD (356 x 76 mm)	1 lb (0.5 kg)	18.3 lbs	0.20 ft ²	125 mph	18" (457 mm) coax
WISP24015PTNF	14" x 3" OD	1 lb (0.5 kg)	18.3 lbs	0.20 ft ²	125 mph	18" (457 mm) coax