

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.



MYP24015PTNF or WISP24015PTNF



MYP24010PTNF



MYK18



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.)

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

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RETURNS

In the unlikely event a defect occurs in this product, please work through the dealer or distributor from which this product was purchased. PCTEL, Inc. provides complete service and support to all of its dealers and distributors.

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2.4 GHz ISM ENCLOSED YAGI DIRECTIONAL ANTENNA SERIES INSTRUCTION SHEET

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Part #: MIS-MYP2400-2 Rev. A