

ESP4 (120 CM) SERIES

Parabolic Antenna

Enhanced Standard Performance Parabolic Antenna

RadioWaves line of ESP parabolic antennas offer a full portfolio covering all unlicensed bands, providing the highest gain in the industry with side lobe performance that exceeds industry standards. All ESP antenna's come fully pre-assembled from the factory, requiring minimal post-installation maintenance while requiring a single tool for mounting and is back by an industry leading 7-year warranty.



ESP4 (120 CM) Series

FEATURES

- Widest selection of frequency bands available
- Best throughput for unlicensed band deployment
- Lowest interference solution
- Rugged and robust design
- Improved adjustment capability requiring only a single tool for mounting
- High gain
- Excellent side lobe performance
- Fully pre-assembled at the factory
- Industry leading 7-year warranty

GENERAL SPECIFICATIONS ESP4 (120 CM) SERIES

Model	ESP4-3.5NS	ESPD4-3.5NS	ESP4-4.7NS	ESPD4-4.7NS	ESP4-5.2NS	ESPD4-5.2NS	ESP4WB-5NS	ESPD4WB-5NS
Antenna Type	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic
Size, Nominal	120 CM	120 CM	120 CM	120 CM	120 CM	120 CM	120 CM	120 CM
Polarization	Single	Dual	Single	Dual	Single	Dual	Single	Single
Standard RF Connector Type	N-Female	N-Female	N-Female	N-Female	N-Female	N-Female	N-Female	N-Female

ELECTRICAL SPECIFICATIONS

Operating Frequency Band	3.3-3.8	3.3-3.8	4.4-5	4.4-5	5.25-5.85	5.25-5.85	4.4-5.825	4.4-5.825
Half Power Beamwidth, Horizontal	5°	5°	3.6°	3.6°	2.95°	2.95°	3.1°	3.1°
Half Power Beamwidth, Vertical	5°	5°	3.6°	3.6°	2.95°	2.95°	3.2°	3.2°
Cross-Polarization Discrimination	34	34	32	32	36	36	31	31
Front to Back Ratio (F/B)	41	41	46	46	54	54	44	44
Gain, Low Frequency	30	30	32.2	32.2	34.5	34.5	31.4	31.4
Gain, Mid Frequency	32.1	32.1	32.4	32.4	35.3	35.3	34	34
Gain, High Frequency	31.7	31.7	33.8	33.8	35.6	35.6	35.5	35.5
VSWR	1.6:1	1.6:1	1.5:1	1.5:1	1.5:1	1.5:1	1.9:1	1.9:1
Return Loss	-13	-13	-14	-14	-15	-15	-10	-10

MECHANICAL SPECIFICATIONS

Model	ESP4-3.5NS, ESPD4-3.5NS, ESP4-4.7NS, ESPD4-4.7NS, ESP4-5.2NS, ESPD4-5.2NS, ESP4WB-5NS, ESPD4WB-5NS
Fine Azimuth Adjustment	10
Fine Elevation Adjustment	10
Mounting Pipe Diameter, Min	2
Mounting Pipe Diameter, Max	4.5
Net Weight	56
Wind Velocity Operational	125
Wind Velocity Survival Rating	155
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	5

SHIPPING INFORMATION

Model	ESP4-3.5NS, ESPD4-3.5NS, ESP4-4.7NS, ESPD4-4.7NS, ESP4-5.2NS, ESPD4-5.2NS, ESP4WB-5NS, ESPD4WB-5NS
Package Type	Wood Crate
Gross Weight	181
Dimensions, L x W x H	59 x 35 x 60
Shipping Volume	71.7 cu ft.

DRAWING

