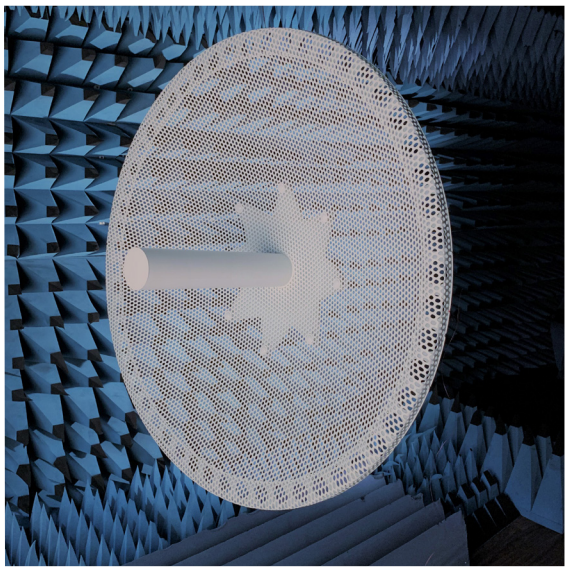
ALARIS mWAVE
INSPIRING THE NEXT RF SOLUTION

# 1.700 - 2.100 GHz Perforated Parabolic

## RPP3-19-N
## 1.700 - 2.100 GHz
## 3-ft. (0.9m) Perforated Parabolic

*Designed to deliver performance and versatility*

The RPP3-19-N is designed for use in the 1.700 - 2.100 GHz band. This innovative Perforated Parabolic antenna features is a lightweight reflector engineered to reduced windload weight loading, which is ideal for postioners, telecoping masts and other specific custom applcations. The reflector rim is reienforced for in a manner that maintains the antennas overall physical weight. The RF input is a Type N female connector located behind the vertex of the main reflector. The antenna reflector is constructed of aluminum, and a pipe mount kit offering fine azimuth and elevation adjustment. The finish is mWAVE's standard gray paint. Optional colors are available.



Alaris mWAVE Antenna solutions range from 100 MHz to 125 GHz - specializing in parabolic antenna, millimeter wave solutions, along custom con- scan and wide band feeds. Contact Alaris mWAVE for more solutions to meet your demanding require- ment.

*Photo shown above is a representation of the actual model.*

### *Features*

- Sturdy reinforced aluminum construction
- Lightweight, ideal for positioner and telescoping masts

### *Specifications*

| | | | |
|---|---|---|---|
| Model | RPP3-19-N | | |
| Type | Perforated Parabolic | | |
| Frequency Band | 1.700 - 2.100 GHz | | |
| Size | 3-ft | (0.9m) | Nominal |
| Polarization | Single Pol. | | |
| Gain, Low, Mid, High, | 21.4 - 22.4 - 23.3 - dBi | | |
| 3 dB Beamwidth, Midband | 11.8 | Degrees | Nominal |
| VSWR | 1.5:1 | Max | |
| Return Loss, Midband | 14.0 | dB | Min |
| On-axis Cross Polarization | 28 | dB | Min |
| Front to Back Ratio | 26 | dB | Min |
| RF Input | Type N Female - 50 OHm | | |
| Finish, Color | Paint, Gray *(other colors available)* | | |

Notes:
1. Survival and Operational wind ratings are based on a specific models mechanical configuration.
2. Models with higher survival ratings are available.
3. Product information is subject to change without notice.

Designed, Engineered, and Manufactured in Windham, ME USA



Form: RPP3-19-N_231030_v.1-DS

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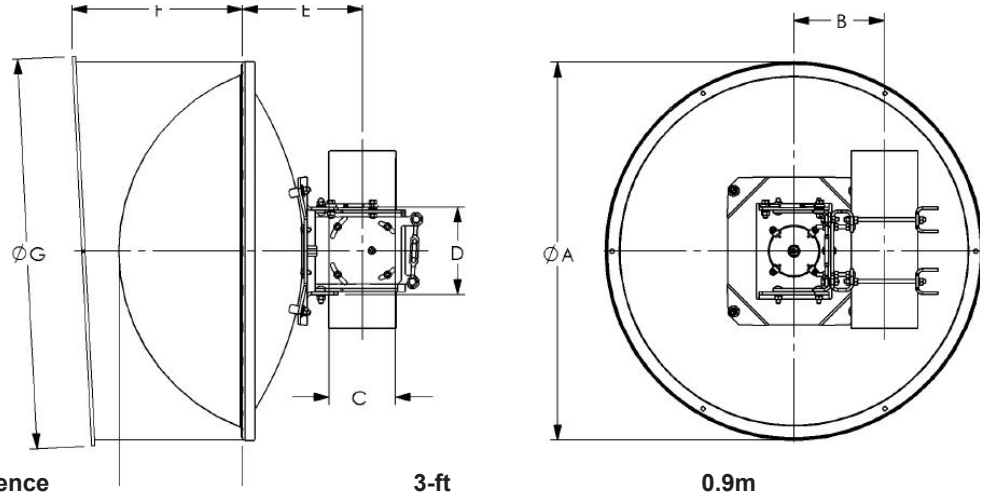
## RPP3-19-N

### *Mechanical*

| | |
|---|---|
| Fine Azimuth Adjustment | +/- 7° |
| Elevation Adjustment | +/- 15° |
| Vertical Mast Pipe Dia. | 1.9 - 4.5-in. O.D. |
| Net Weight | 15-lbs (7-kg) |
| Strut Supplied | N/A |
| Strut Optional Side | N/A |
| Strut Optional Bottom | N/A |
| Operational Wind | 50 mph / 80 kmh |
| Survival Wind | 90 mph / 145 kmh |
| Operational Temperature | -40° F to +140° F (-40° C to + 60° C) |
| Standard | ANSI / TIA - 222 |

### *Mechanical Dimensions*




| | Reference | 3-ft | 0.9m |
|---|---|---|---|
| A | Antenna Diameter | 37.5 | 953 |
| B | Center Line Offset | 7.2 | 183 |
| C | Mast Diameter (max. / min.) | 1.9 - 4.5 | 48 - 115 |
| D | Mount Height | 6.5 | 165 |
| E | Antenna / Mount Depth | 10.4 | 264 |
| F | Shroud Length (short)(hp only) | 17.3 | 439 |
| G | Radome diameter (hp only) | 38.4 | 975 |
| H | Radome depth (std only) | 12.8 | 325 |
| | Struts Supplied (adjustable) | N/A | |
| | Struts Supplied (fixed) | N/A | |
| | Azimuth Adjustable Range (fine) | +-7° | |
| | Elevation Adjustment Ranges | +/- 15° | |

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