



PRA-118-C32 PARABOLIC REFLECTOR ANTENNA

PRA-118-C32

The PRA-118-C32 is a lightweight composite, parabolic reflector antenna designed to transmit or receive in the frequency range from 1.0 to 18.0 GHz. The antenna is supplied with a modified DRG-118 feed antenna. The parabolic reflector serves to enhance the front-to-back ratio of the radiation pattern, as well as to increase the forward gain over a narrow beam.

The PRA-118 antenna can be provided in a C4 (4 foot diameter) or C3 (3 foot diameter) composite reflector. The feed can be the CX2 high power modified DRG-118 feed or a CX1 feed with is the standard LPD-118 printed circuit feed.

The PRA-118-C32 model can be provided with different mounting options. Tripods with or without pan/tilt head and telescopic masts are available. Additionally, the PRA-118-C32 can be provided with our high end products; such as EL/AZ Positioning system with Controller; Azimuth rotator with Controller; Polarization Rotator with Controller. The entire antenna with mounting mechanism and optional tripod fits into an optional fiberglass case for storage and transport. Assembly and erection of the antenna is accomplished with no tools.



PRA-118-C42 (4 foot reflector)



PRA-118-C31 (3 foot reflector)

PRA-118-C32 Specifications:

Frequency Range:	1.0 to 18.0 GHz
Polarization:	Linear
Output Impedance:	50 Ohm
VSWR:	2.5: 1 Typical
Gain:	See Figure 1
Front to Back Ratio:	25 dB Typical over the band
Power:	400 Watts CW
Connector:	Type-N female
Weight:	~15 lbs. / 7 kg without the case and accessories
Reflector Diameter:	36.0"
Reflector Depth:	25.0"
Material:	Aluminum, steel, fiberglass
Finish:	Black anodize, white and black paint



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Environmental:

Temperature:

-40C to +65C

Shock:

10G for all 3 axis

Vibration:

MIL-STF-810F Figure 514.5C-1 Operational Ground Vehicle

Wind Speed:

80 MPH

PRA-118-C32 NOMINAL GAIN

