



Size:

2.40m

PFA-240-SPL

Universal Band Coverage with Interchangeable Feed

The PFA-240-SPL operates across C, X, Ku, and Ka bands using an interchangeable feed system. This flexibility delivers instant satellite communications for broadcasting, corporate networks, military operations, and emergency response.

IATA Compatible Transport for Global Reach

Designed for true worldwide mobility, the complete system packs into IATA weight-compliant flight cases for transport on commercial airlines. This allows deployment at any remote destination without logistical complications, ensuring critical communication capabilities arrive safely wherever needed.

Carbon-Fiber Construction for Rapid Deployment

The carbon-fiber main reflector enables two operators to complete tool-free installation within 12 minutes, requiring no special training. The precision reflector surface delivers excellent RF performance with low sidelobes and superior cross-polarization characteristics.

Key Features

- C, X, Ku, Ka Band available
- 10 reflector panels (carbon-fiber)
- Motorized or manual versions
- Interchangeable Feeds
- Integrated DVB-S/S2 & Beacon Receiver
- High gain, low side-lobe, high accuracy and very good cross polar rejection (> 35 dB)
- Supports OpenAmip
- DVB/ Beacon Tracking
- Optional 4G / 5G /LTE supported modem for load balancing and bonding solutions
- Optional De-Ice System





GENERAL SPECIFICATIONS

Reflector Diameter
Reflector Type
Operation On-Air Time
Antenna Concept

PFA-240-SPL

2.4m
Circular, axially symmetric with 10 carbon-fiber panels, prime focus feed
~3 Minutes after Set-Up
Portable design with pedestal, trailer, tactical, tripod, mobile mounts.

RF CHARACTERISTIC

Frequency (GHz) Tx
Frequency (GHz) Rx
Antenna Gain (±0.2 dBi) Tx
Antenna Gain (±0.2 dBi) Rx
Polarization
Feed Insertion Loss
Waveguide Interface
VSWR
Cross-Polar Isolation
G/T
Antenna Pattern Compliancy

PFA-240-SPL

13.75 - 14.50
10.70 - 12.75
49.2 dBi @ Midband
47.4 dBi @Midband
Linear
Tx 0.8 dB Rx 0.3 dB
WR-75
1.3:1
35 dB
28.5 dB/K
ITU-R S.580-6 & ITU-R S.465-6

OTHER FEED OPTIONS

Frequency (GHz) Tx
Frequency (GHz) Rx
Gain Tx (dBi)
Gain Rx (dBi)

C-Band	X-Band	Ka-Band
5.850 - 6.65	7.90 - 8.40	27.50 - 31.00
3.625 - 4.200	7.25 - 7.75	17.70 - 21.20
42 @ 6.00 GHz	44.4 @ 8.15GHz	55.2 @ 30.00GHz
37.6 @ 4.00GHz	43.5 @ 7.50GHz	52.3 @ 20.00GHz

MECHANICAL SPECIFICATIONS

Antenna Drive Rates
Antenna Travel Rates
Manual Override Mechanism
Mount Type
Operational Limits
Carbon-Fiber Cases Dimension

Azimuth	Elevation	Polarization
0.3°/s	0.5°/s	0.5°/s
± 180°*	0° to 90°	± 90°
Manual override for elevation and azimuth drive system		
Elevation over Azimuth		
Hardware and software settable		
Box1: 100cmx100cmx65cm		
Box2: 100cmx100cmx60cm		

* Antenna azimuth travel range is +/-180° when elevation is greater than 36°, Antenna azimuth travel range is +/-60° from local 150° when elevation is less than 36°

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational
Temperature Range Survival
Wind Speed Operational
Wind Speed Survival
Humidity (Relative)
Altitude

PFA-240-SPL

-30°C to +60°C
-40°C to +70°C
60 km/h (optional 72 km/h with pedestal mount)
120 km/h (optional 150 km/h with pedestal mount)
0-100%
4000 m

Specifications are subject to change.