



Size:

3.70m

PFMA-370

Advanced Capabilities & Multiband Performance

The PFMA-240, integrated with the PAC-700 Antenna Controller, delivers an advanced solution for demanding applications requiring precise tracking and complex geometries. This powerful combination ensures reliable operation in dynamic environments, making it ideal for missions where accurate positioning and robust performance are essential.

Robust Construction & Signal Integrity

Featuring precision-formed reflector panels, contoured radials, and a machined hub assembly, its robust construction ensures high gain. This premium engineering delivers tightly controlled radiation patterns for superior signal integrity and total operational reliability worldwide.

Tracking Flexibility & Broad Coverage

The system provides unmatched pointing flexibility with an impressive 240 degrees of azimuth coverage and 60 degrees of elevation range. This features seamless, horizon-to-horizon tracking of geostationary satellites from any global field location.

Key Features

- C, X, Ku and Ka Bands available
- Servo motors azimuth and elevation drivers
- Entirely zero-backlash mechanical drive system
- Structure type: A+E type, A+E-T type, X-Y type
- Ethernet interface and supports SNMP ver. 2.0c for M&C
- Inclined orbit tracking
- Optional Feed Stabilization Kit
- Optional Beacon Tracking
- Optional De-Ice system





GENERAL SPECIFICATIONS

Reflector Diameter	
Antenna Structure	

PFMA-370

3.7m
Ring Focus, Center-Feed

RF CHARACTERISTIC

Frequency (GHz) Tx	
Frequency (GHz) Rx	
Antenna Gain (±0.2 dBi) Tx	
Antenna Gain (±0.2 dBi) Rx	
Axial Ratio (2 Port) Tx/Rx	
Cross Pol (On Axis)	
Polarization	
Antenna Noise Temperature (K) ° 10 Elevation	
Antenna Noise Temperature (K) ° 20 Elevation	
Antenna Noise Temperature (K) ° 40 Elevation	
VSWR Tx	
VSWR Rx	
Rx to Tx Isolation	
Feed Insertion Loss Tx	
Feed Insertion Loss Rx	
Power Capability Tx	
Feed Interface Tx	
Feed Interface Rx	

C-Band

5.845 ~ 6.725
3.4 ~ 4.20
45.74@6.2 GHz
41.49 @3.8 GHz
≤1.3 dB
<35dB
Circular/Linear
51.6K
45.6K
41.6K
1.25:1
1.25:1
85dB
≤0.3dB
≤0.4dB
5kW
CPR-229G
CPR-137G

Ku-Band

13.75 ~14.5
10.95 ~ 12.75
52.81@ 14.00GHz
51.83@ 12.5 GHz
≤1.3 dB
<35dB
Linear
62K
50.8K
44K
1.3:1
1.3:1
85dB
≤0.3dB
≤0.4dB
2kW
WR-75
WR-75

Ka-Band

29.20 ~ 31.00
19.40 ~ 21.20
59.14@ 29.00 GHz
55.46@ 19.05 GHz
≤1.5 dB
<35dB
Linear/Circular
125.5K
87K
61K
1.35:1
1.35:1
85dB
≤0.5dB
≤0.6dB
2kW
WR42
WR28

MECHANICAL SPECIFICATIONS

Antenna Motion Range	
Antenna Structure	
Surface accuracy(R.M.S)	

Azimuth

LMC: 100°contin. /FMC: 5°~355°con. 5°~90°
EL over AZ
≤0.5mm

Elevation

Polarization

±90°

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Wind Speed Operational	
Wind Speed Survival	
Humidity	
Ice Load	
Seismic Capacity Horizontal	
Seismic Capacity Vertical	

PFMA-370

-30 ~ +50°C
72 km/h
216 km/h
100%
Icing 13mm: normal work / Icing 25mm, no damage
0.3G
0.1G

Specifications are subject to change.

