

PFM74000/PFMX4000 Mixed Pol. FM 4 Dipoles Panel

Band FM

Operative Frequency
87.5 - 108 MHz

Input: 4x 7/8" EIA
4x 7-16 DIN

MAIN FEATURES

Product Code: PFM74000 (EIA 7/8") / PFMX4000(DIN 7-16)

Electrical characteristics

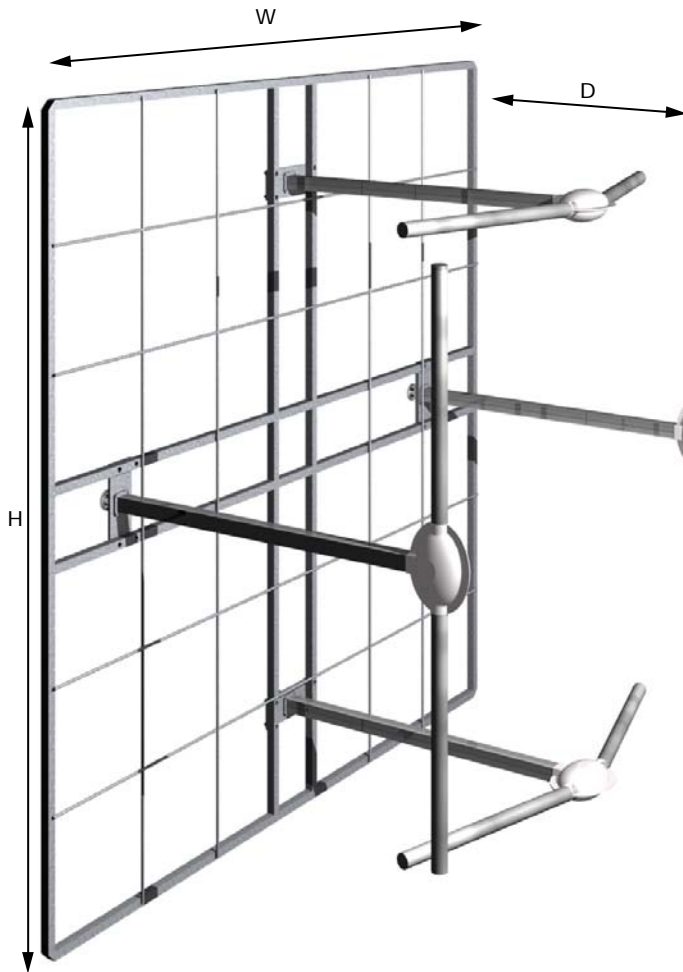
Frequency Range	87.5 - 108 MHz
Input impedance	50 OHM
Polarization	Horizontal/Vertical Circular/Elliptical
Gain	4.5 (Circular) / 7.5 dBd (Linear)
VSWR	<1.13 (Circular)/<1.2 (Linear)
Max input Power PFM74000	5.0 kW x input
Max input Power PFMX4000	2.5 kW per input
all metal parts are ground connected	

Mechanical characteristics

Input Connector PFM74000	4 x EIA 7/8"
Input Connector PFMX4000	4 x 7-16 DIN female
Weight/Mass	725.2 N (74 Kg 163 lbs)
Wind loads (wind=160 Kph)	1650 N (Front thrust) 1360 N (Side thrust)
Max Wind	240 kph (150 mph)
Operating temperature	-50°C to +70°C
Pressurization (NOT for 7-16 version)	100 KPa (1 Atm)
Mounting:	Tower Face Mount (custom brackets on request)

Materials

External parts	Hot dip galvanized steel
Dipoles	Stainless Steel
Internal Lines	Silver Plated Alu/Brass
Hardware	Stainless Steel
Ice Protection	Fiberglass



H: 2200 mm [86.6"] W: 2200mm [86.6"] D: 1024 [40.3"]

E/EM Radiation Patterns (@ mid band)



Horizontal Component



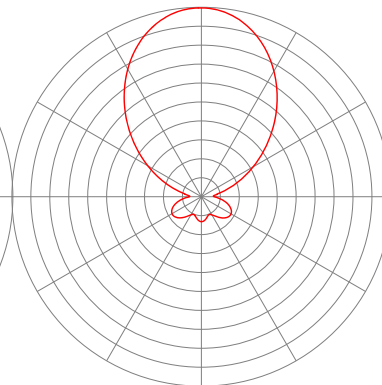
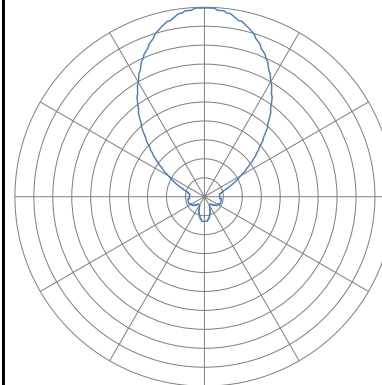
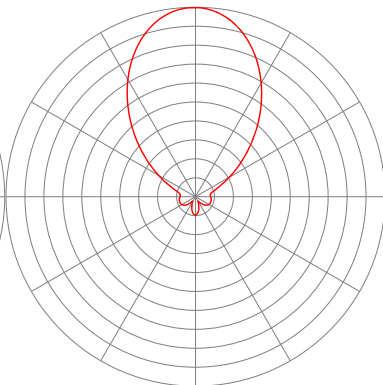
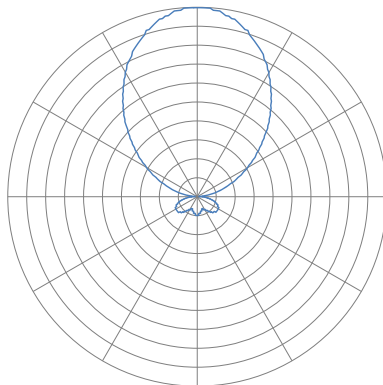
Vertical Component

Horizontal Pattern
(E plane)

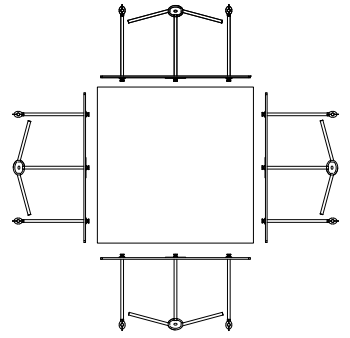
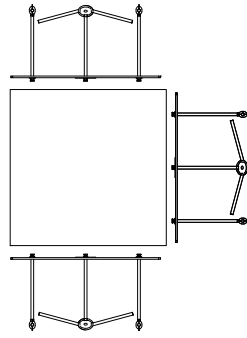
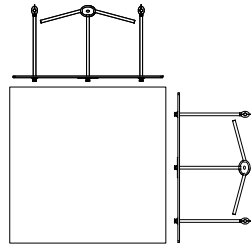
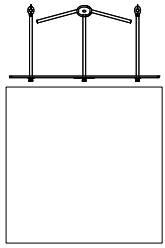
Vertical Pattern
(H plane)

Horizontal Pattern
(H plane)

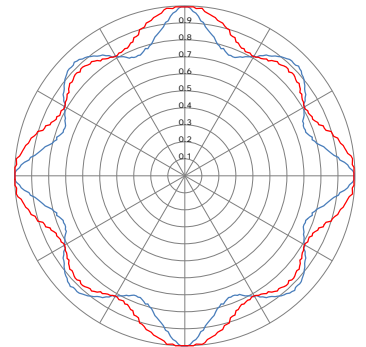
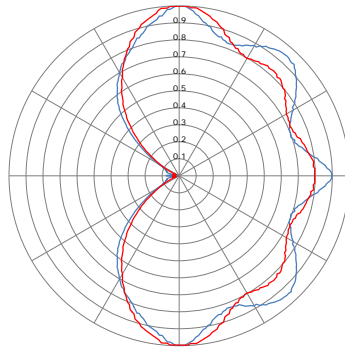
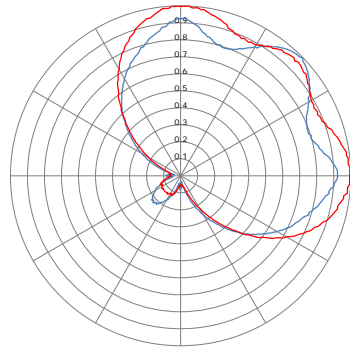
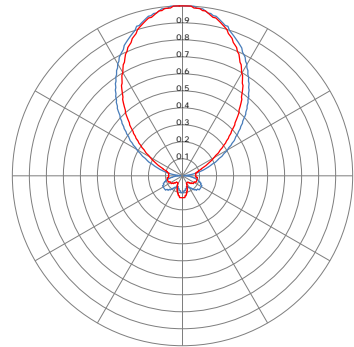
Vertical Pattern
(E plane)



PFM74001/PFMX4001 Mixed Pol. FM 4 dipoles Panel- Typical Antenna Systems Patterns



— Horizontal Component
— Vertical Component



1 Face

2 Faces

3 Faces

4 Faces

Bays	Gain dBd	Height (H) m	Weight kg
1	7.5	2.2	62
2	10.5	5.4	124
3	12.3	8.6	186
4	13.5	11.8	248
6	15.3	18.2	372
8	16.5	24.6	496
12	18.3	37.4	744

Bays	Gain dBd Hpol. (Vpol.)	Height (H) m	Weight kg
1	5.2 (3.9)	2.2	148
2	8.2 (6.9)	5.4	296
3	9.9 (8.6)	8.6	444
4	11.2 (9.9)	11.8	592
6	12.9 (11.6)	18.2	888
8	14.2 (12.9)	24.6	1184
12	15.9 (14.6)	37.4	1778

Bays	Gain dBd Hpol. (Vpol.)	Height (H) m	Weight kg
1	3.6 (3.3)	2.2	222
2	6.6 (6.3)	5.4	444
3	8.2 (7.9)	8.6	666
4	9.6 (9.3)	11.8	888
6	11.2 (10.9)	18.2	1332
8	12.6 (12.3)	24.6	1776
12	14.2 (13.9)	37.4	2664

Bays	Gain dBd Hpol. (Vpol.)	Height (H) m	Weight kg
1	2.2 (1.3)	2.2	296
2	5.2 (4.3)	5.4	592
3	7.0 (6.1)	8.6	888
4	8.2 (7.3)	11.8	1184
6	10.0 (9.1)	18.2	1776
8	11.2 (10.3)	24.6	2368
12	13.0 (12.1)	37.4	3552

E/EM Vertical Radiation Patterns (Vertical Polarization)

