

PVM74000-PVMX4000 VHF & DAB MIXED POL. 4 Dipoles Panel

VHF
Band III TV
DAB / DAB+

Operative Frequency
174 - 240 MHz

Input Size:
EIA 7/8" - DIN 7-16



H: 1310 mm [51.6"] W: 1300 mm [51.2"] D: 481 mm [18.9"]

ELECTRICAL CHARACTERISTICS

Frequency Range	H. Pol.: 174 - 223 MHz*
	V. Pol.: 174 - 240 MHz
Input impedance	50 OHM
Polarization	Horiz. Vert. Circ. Elliptical
Gain (Circular Pol.)	4.5 dBd (@ 200 MHz)
Gain (Linear Pol.)	7.5 dBd (@ 200 MHz)
VSWR	<1.1 (Circ. Pol.)
Max input Power PVM74000	3 kW (Input 7/8")
Max input Power PVMX4000	1 kW (Input 7-16)
* 230 MHz (on request)	

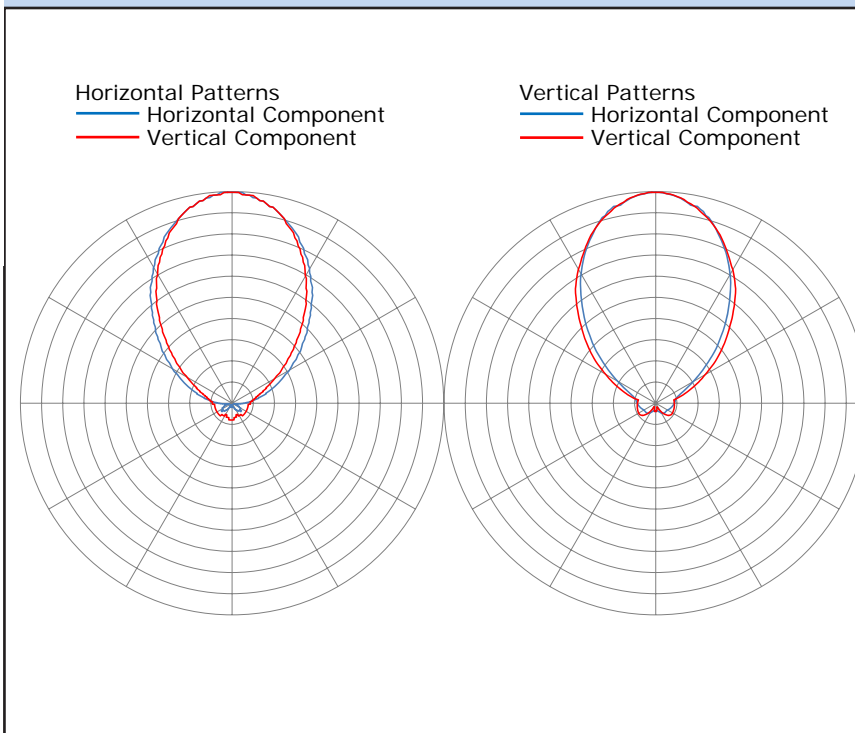
MECHANICAL CHARACTERISTICS

Input Connector PVM74000	2 X EIA 7/8"
Input Connector PVMX4000	2 X 7-16 DIN Female
Weight/Mass	412 N (42 Kg 93 lbs)
Wind loads (wind=160 Kph)	800 N (Front thrust) 655 N (Side thrust)
Max Wind (survival)	200 Kph
Operating temperature	-50°C to +70°C
Pressurization (NOT for 7-16 input)	100 KPa (1 Atm)
Mounting	Tower face

Materials

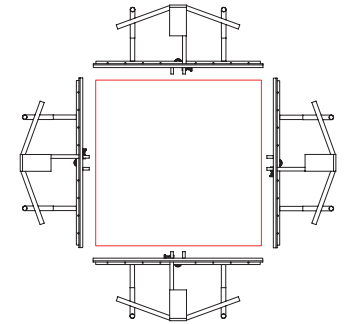
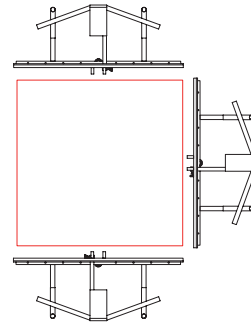
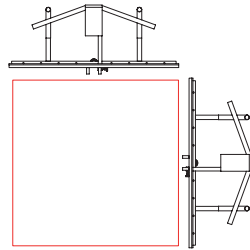
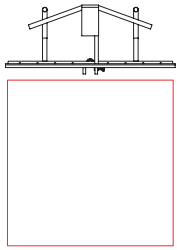
External parts/Brackets	Hot Dip Galvanized Steel
Internal Lines/ Dipoles	Silver Plated Alu/Brass
Hardware	Stainless Steel

RADIATION PATTERNS

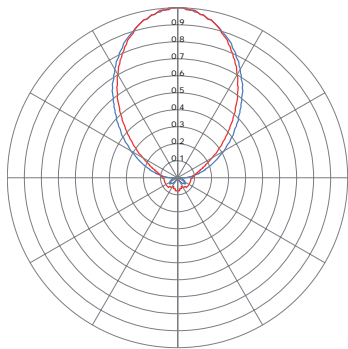


PVM74000-PVMX4000 VHF & DAB Panels - Typical Antenna Systems Patterns

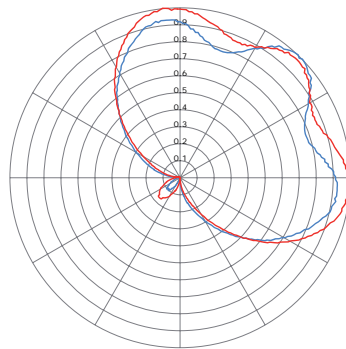
Arrays Data Table



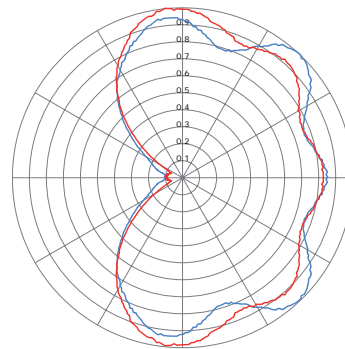
— Horizontal Component
— Vertical Component



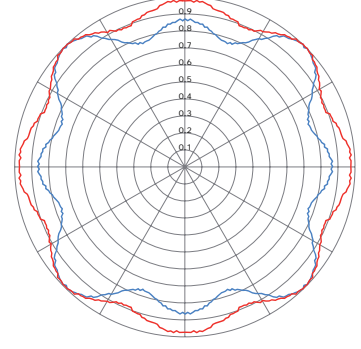
1 face



2 faces



3 faces



4 faces

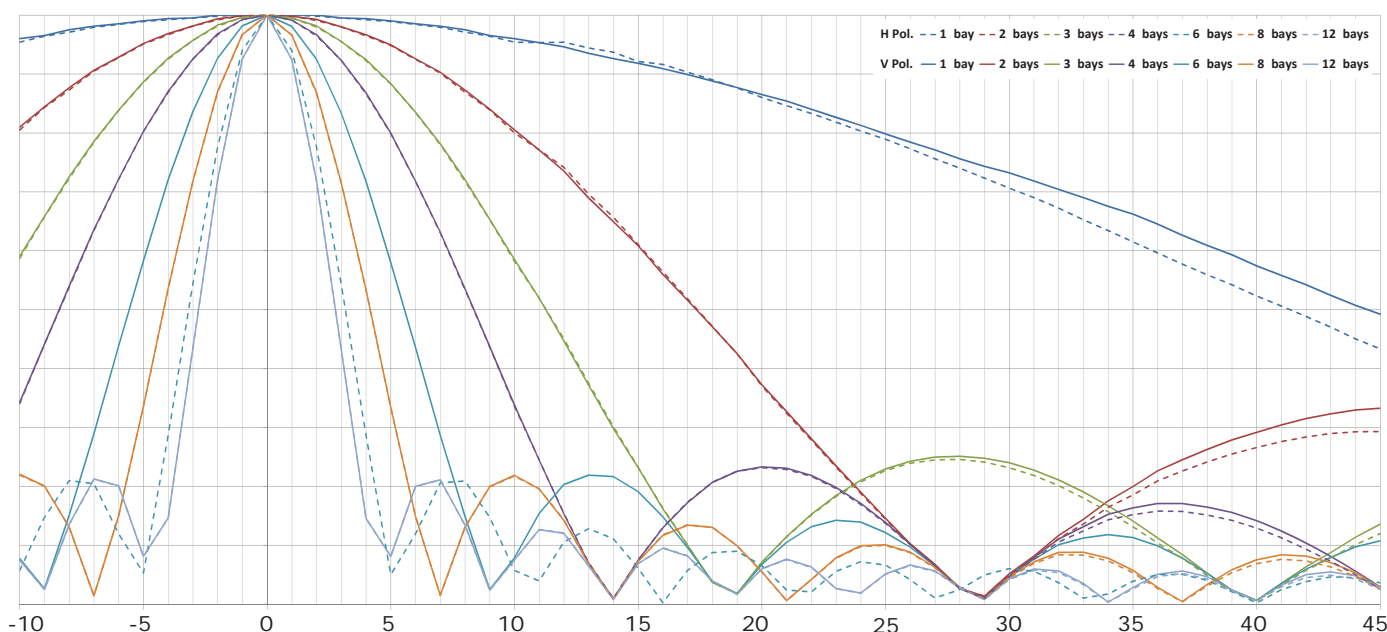
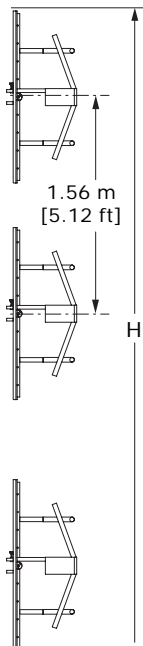
Bays #	Height H m	Gain dBd	Weight kg
1	1.31	7.5	84
2	2.87	10.5	168
3	4.18	12.3	252
4	5.49	13.5	336
6	8.11	15.3	504
8	10.73	16.5	672
12	15.97	18.3	1008

Gain dBd	Weight kg
4.5(3.6)	84
7.5(6.6)	168
9.3(8.4)	252
10.5(9.6)	336
12.3(11.4)	504
13.5(12.6)	672
15.3(14.4)	1008

Gain dBd	Weight kg
2.8(2.4)	126
5.8(5.4)	252
7.6(7.2)	378
8.8(8.4)	504
10.6(10.2)	756
11.8(11.4)	1008
13.6(13.2)	1512

Gain dBd	Weight kg
1.5(0.6)	168
4.5(3.6)	336
6.3(5.4)	504
7.5(6.6)	672
9.3(8.4)	1008
10.5(9.6)	1344
12.3(11.4)	2016

E/EM Vertical Radiation Patterns



I dati contenuti nel presente datasheet possono variare senza preavviso
Data on this datasheet can vary without previous notice

09/21