



久 菘 科 技 股 份 有 限 公 司  
EVERTIME COMMUNICATIONS CO., LTD.

NO. 23-2, HUNGMAU, HSIN-FENG VILLAGE, SHING-FENG SHIANG, HSIN-CHU, TAIWAN, R.O.C.

TEL:+886-3-5687918

FAX:+886-3-5686953

E-mail: service@ep.com.tw

<http://www.ep.com.tw>

承 認 書

SPECIFICATION FOR APPROVAL

Customer :

Product Description: **802.11n Directional MIMO Panel Antenna**

Part Number: **1PGM-33812-1**

Date: **2009-02-26**

-----

Customer Evaluation:

PASS

NG

Approved Date:

-----

Evertime Communication Approved By : \_\_\_\_\_ Date:

Evertime Communication Prepared By : \_\_\_\_\_ Date:

-----

# Directional MIMO Panel Antenna

## for 3.3~3.8GHz

Version 1

1PGM-33812-1

### Electrical Specification:

Frequency	3.3~3.8GHz
Part Number	1PGM-33812-1
Polarization	Linear
V.S.W.R.	1 : 1.5 Max
Impedance	50 OHMS $\pm 5\Omega$
Gain	12 dBi
Power handling	15W Max
Front to back ratio	30dB
HPBW / horizontal	30°
HPBW / vertical	30°
Rated Wind	3.0 lbs. (1.4 kg)
Operating Temperature	-20°C~60°C

### MECHANICAL SPECIFICATION

Connector Type	N Type Female X3
Length	263*263*48mm
Weight	1310g
Radome color	Gray-white
Radome material	PC and ABS

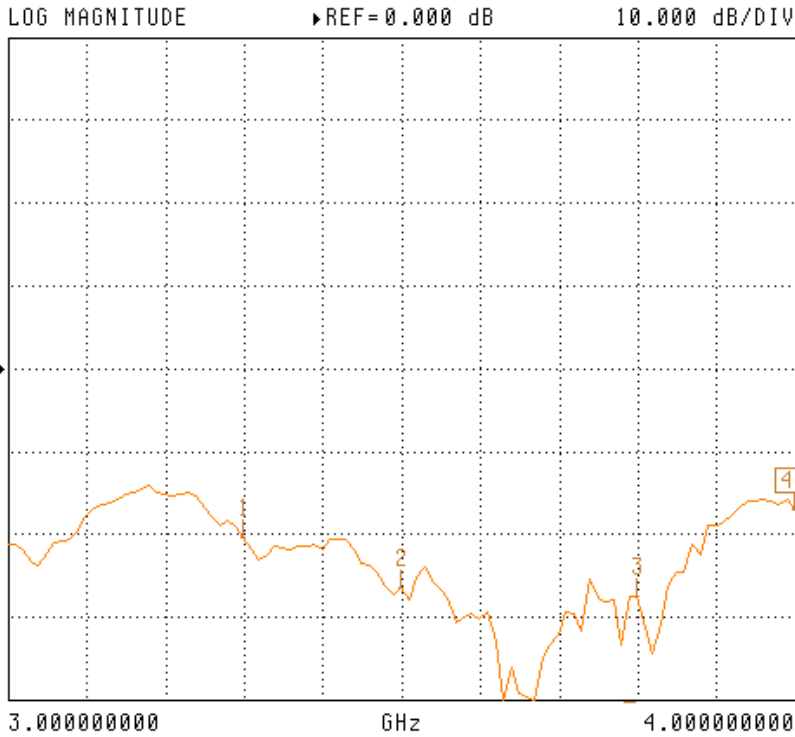
# Directional MIMO Panel Antenna

## for 3.3~3.8GHz

Version 1

1PGM-33812-1

S11 FORWARD REFLECTION



CH 1 - S11  
REFERENCE PLANE  
0.0000 mm

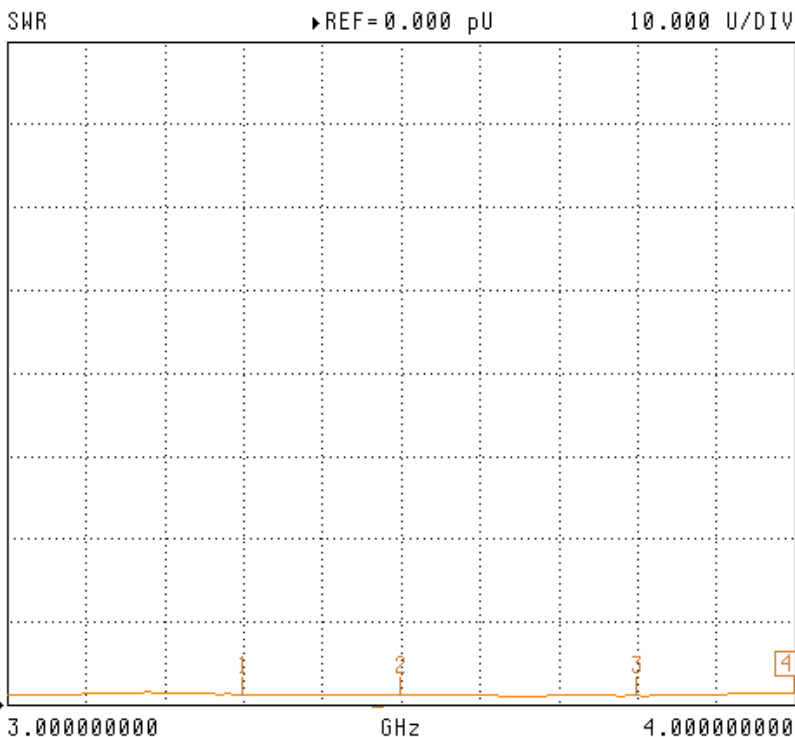
MARKER 4  
4.000000000 GHz  
-17.161 dB

MARKER TO MAX  
MARKER TO MIN

- |   |                 |            |
|---|-----------------|------------|
| 1 | 3.300000000 GHz | -20.500 dB |
| 2 | 3.500000000 GHz | -26.527 dB |
| 3 | 3.800000000 GHz | -27.466 dB |

MARKER READOUT  
FUNCTIONS

S11 FORWARD REFLECTION



CH 1 - S11  
REFERENCE PLANE  
0.0000 mm

MARKER 4  
4.000000000 GHz  
1.325 U

MARKER TO MAX  
MARKER TO MIN

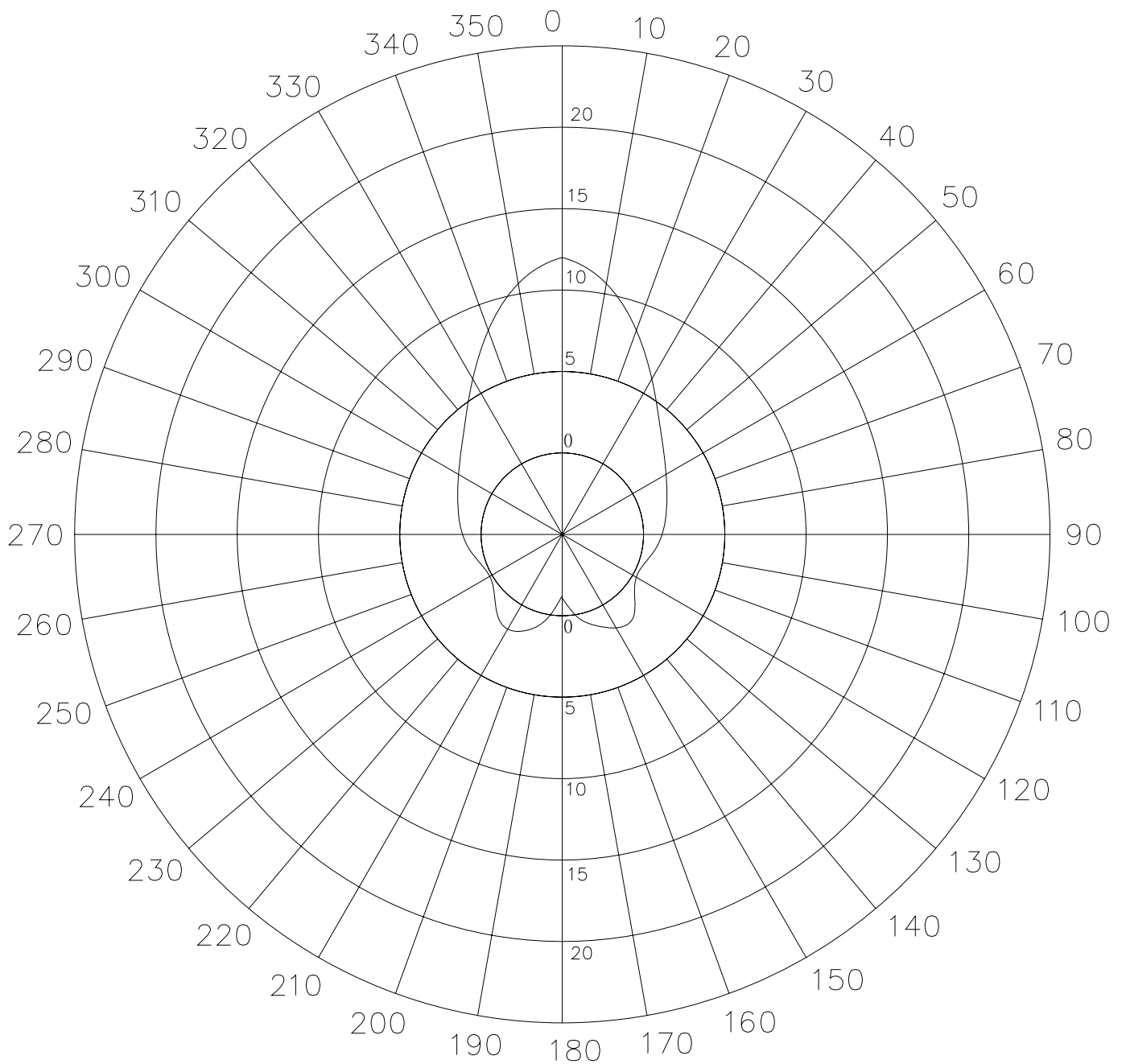
- |   |                 |         |
|---|-----------------|---------|
| 1 | 3.300000000 GHz | 1.220 U |
| 2 | 3.500000000 GHz | 1.085 U |
| 3 | 3.800000000 GHz | 1.075 U |

MARKER READOUT  
FUNCTIONS

# Directional MIMO Panel Antenna for 3.3~3.8GHz    **Version 1**

1PGM-33812-1

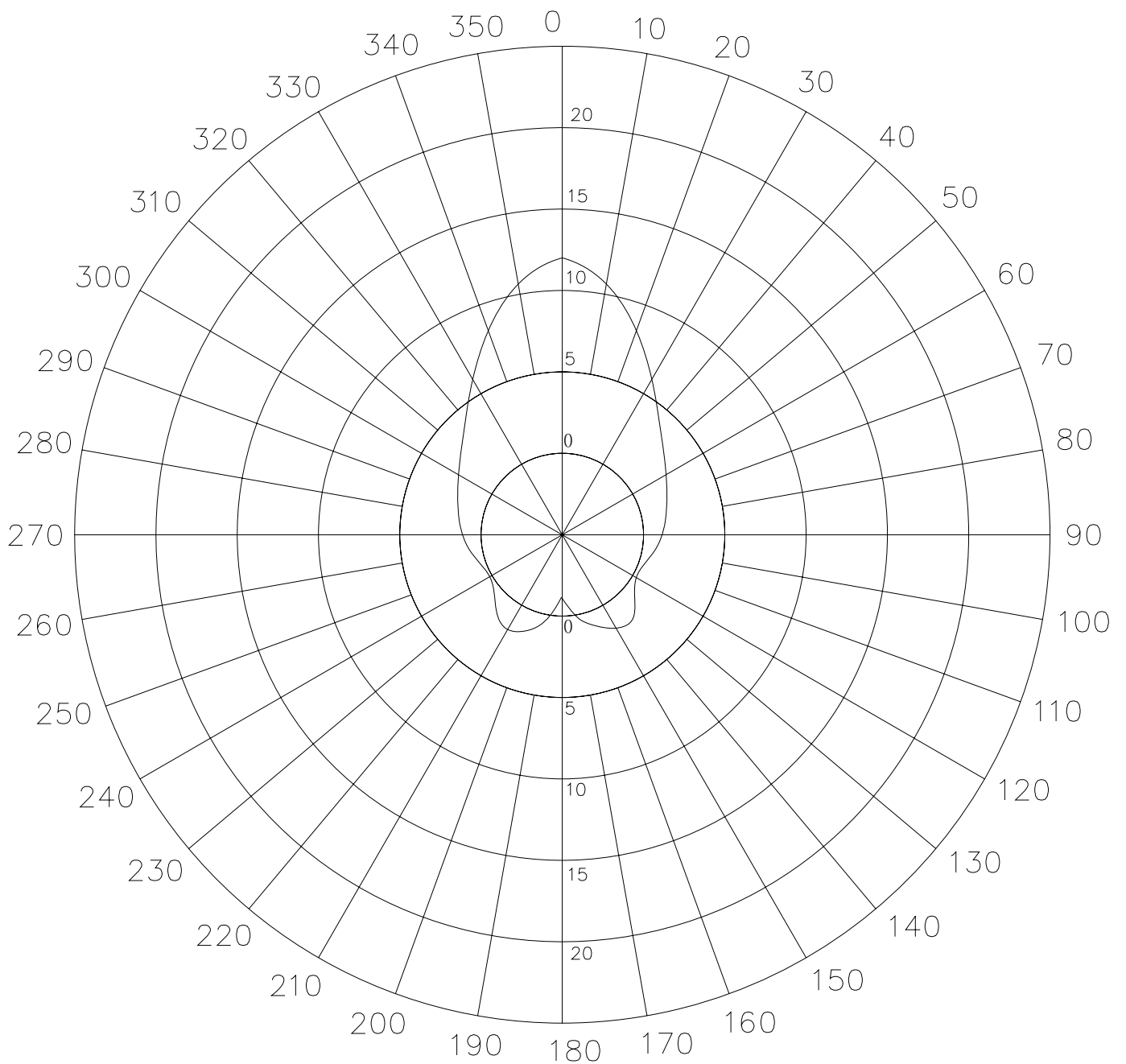
## **H-PLANE FIELD PATTERNS**



# Directional MIMO Panel Antenna for 3.3~3.8GHz    **Version 1**

1PGM-33812-1

## E-PLANE FIELD PATTERNS

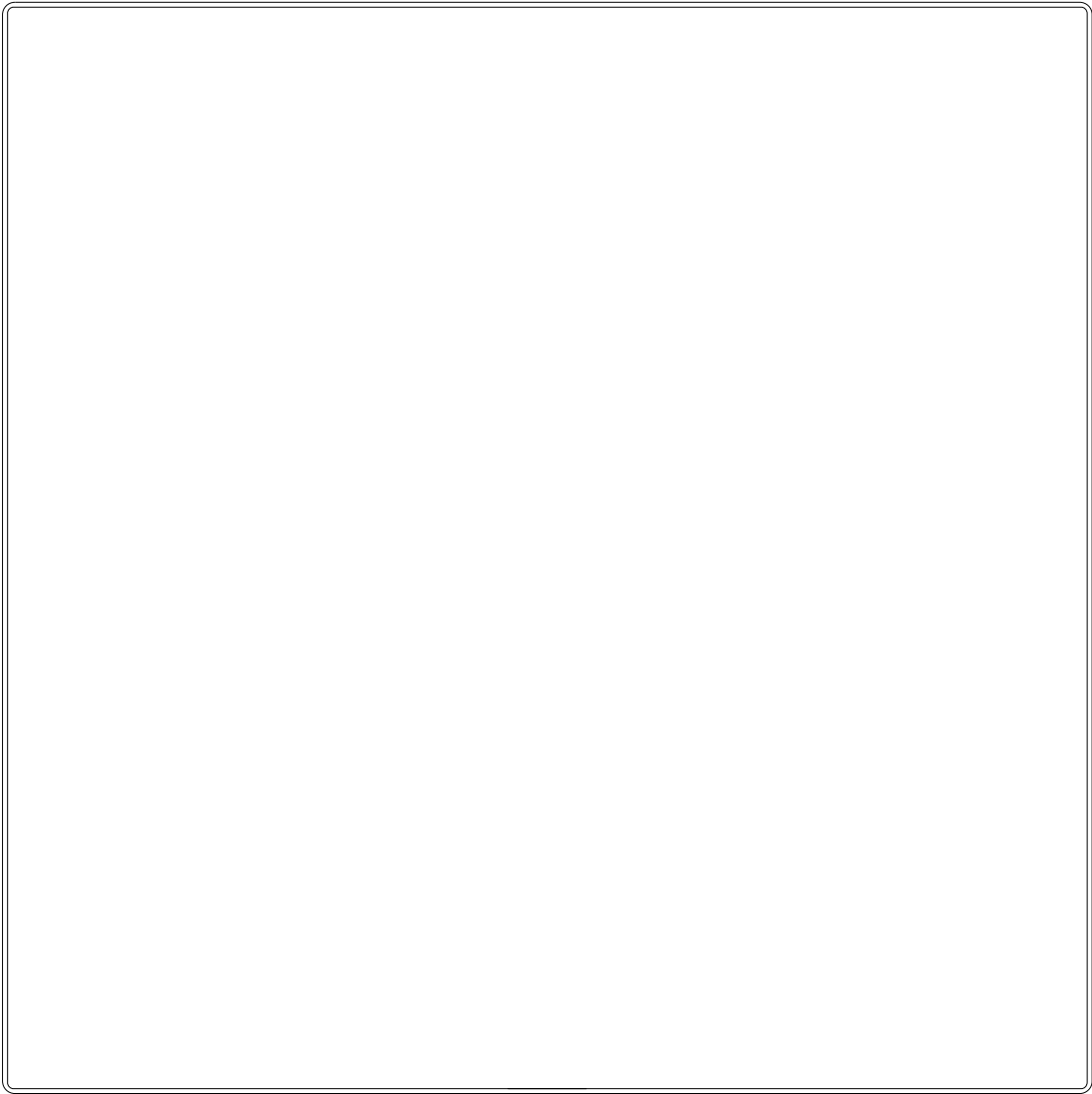


# Directional MIMO Panel Antenna

for 3.3~3.8GHz

Version 1

1PGM-33812-1



N  
TYPE  
FEMALE