承 認	検 認	検 認	担 当
技術 '24. 12.04 高瀬			技術 '24. 12.04 武田

技適基準適合証明用アンテナ特性資料

Antenna Characteristics Document for Technical Regulations Conformity Certification

T18-077-1107
T18-077-1108

04 DECEMBER,2024

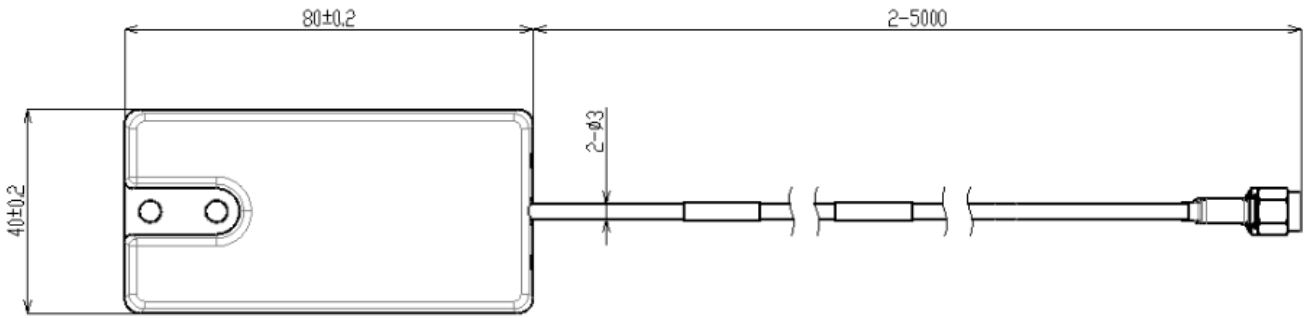
Staf Corporation
Electric Group

Address:Staf Bldg. 2-6-12 Shin-Yokohama, Kohoku-ku,
Yokohama-shi, Kanagawa-ken, Japan

1.仕様 Specification

項目	記載内容
メーカー名 Manufacturer	スタッフ株式会社 Staf Corporation
品名（製品名称） Product Name	アンテナ Antenna
技適申請番号 Application Number	T18-077-1107 T18-077-1108
測定周波数 Frequency	617~5850[MHz]
アンテナ型式 Antenna Type	Dipole Antenna (λ/2)
最大絶対利得 Maximum Absolute Gain	617~5850[MHz]:3[dBi]以下 617~5850[MHz]:3[dBi] or less ※但し、B41(2496~2690[MHz])に限り、4[dBi]以下 詳細はグラフ参照のこと ※However, for B41 (2496~2690[MHz]), 4[dBi] or less See graph for details
インピーダンス Impedance	50Ω
コネクタ形状 Connector Type	SMA

2.外形図 Outside Dimension Drawing



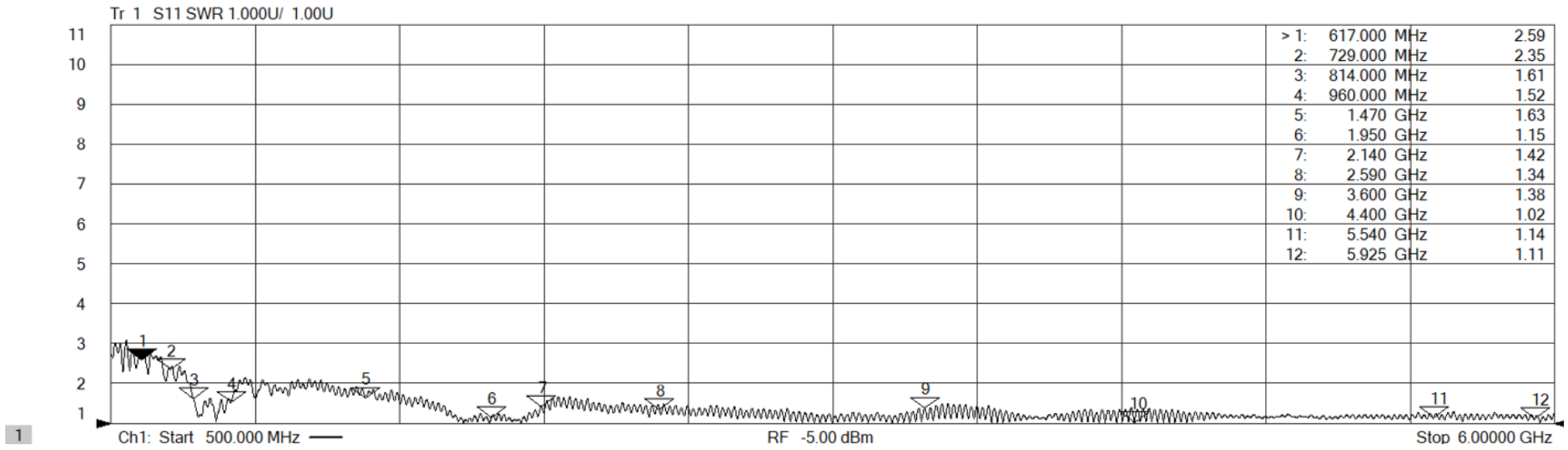
T18-077-1107

T18-077-1108

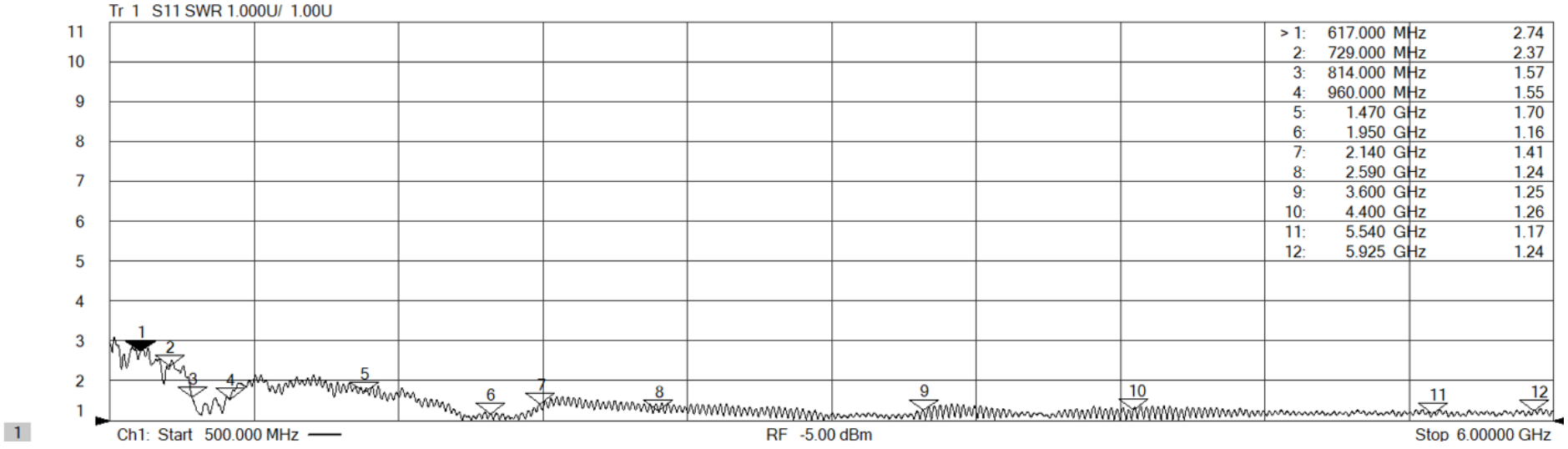
単位:mm
Unit:mm

3.VSWR

T18-077-1107



T18-077-1108



4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

B28

703 [MHz]	725.5 [MHz]	748 [MHz]
Efficiency -16.60 [dBi]	Efficiency -15.34 [dBi]	Efficiency -13.78 [dBi]
Z X面		
H MRG -16.62 [dBi]	H MRG -15.95 [dBi]	H MRG -14.85 [dBi]
(Red) PAG -22.35 [dBi]	(Red) PAG -20.49 [dBi]	(Red) PAG -19.04 [dBi]
V MRG -14.64 [dBi]	V MRG -13.65 [dBi]	V MRG -11.78 [dBi]
(Blue) PAG -16.96 [dBi]	(Blue) PAG -15.37 [dBi]	(Blue) PAG -13.12 [dBi]
Y Z面		
H MRG -12.65 [dBi]	H MRG -12.01 [dBi]	H MRG -11.50 [dBi]
(Red) PAG -18.56 [dBi]	(Red) PAG -17.47 [dBi]	(Red) PAG -16.17 [dBi]
V MRG -18.76 [dBi]	V MRG -19.24 [dBi]	V MRG -19.85 [dBi]
(Blue) PAG -21.93 [dBi]	(Blue) PAG -22.96 [dBi]	(Blue) PAG -23.82 [dBi]
X Y面		
H MRG -16.53 [dBi]	H MRG -14.78 [dBi]	H MRG -13.57 [dBi]
(Red) PAG -20.34 [dBi]	(Red) PAG -18.53 [dBi]	(Red) PAG -16.87 [dBi]
V MRG -19.27 [dBi]	V MRG -16.13 [dBi]	V MRG -14.57 [dBi]
(Blue) PAG -22.27 [dBi]	(Blue) PAG -19.93 [dBi]	(Blue) PAG -16.88 [dBi]

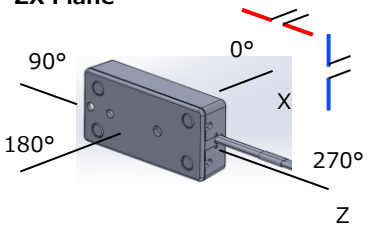
B18

815 [MHz]	822.5 [MHz]	830 [MHz]
Efficiency -6.77 [dBi]	Efficiency -6.65 [dBi]	Efficiency -6.61 [dBi]
Z X面		
H MRG -6.02 [dBi]	H MRG -5.62 [dBi]	H MRG -5.66 [dBi]
(Red) PAG -10.28 [dBi]	(Red) PAG -9.77 [dBi]	(Red) PAG -9.34 [dBi]
V MRG -6.51 [dBi]	V MRG -7.01 [dBi]	V MRG -8.17 [dBi]
(Blue) PAG -8.40 [dBi]	(Blue) PAG -9.21 [dBi]	(Blue) PAG -10.22 [dBi]
Y Z面		
H MRG -5.40 [dBi]	H MRG -5.19 [dBi]	H MRG -4.67 [dBi]
(Red) PAG -7.89 [dBi]	(Red) PAG -7.85 [dBi]	(Red) PAG -7.85 [dBi]
V MRG -16.49 [dBi]	V MRG -15.82 [dBi]	V MRG -14.80 [dBi]
(Blue) PAG -19.26 [dBi]	(Blue) PAG -17.75 [dBi]	(Blue) PAG -17.94 [dBi]
X Y面		
H MRG -9.13 [dBi]	H MRG -9.50 [dBi]	H MRG -9.29 [dBi]
(Red) PAG -12.92 [dBi]	(Red) PAG -13.43 [dBi]	(Red) PAG -13.46 [dBi]
V MRG -5.34 [dBi]	V MRG -4.78 [dBi]	V MRG -4.54 [dBi]
(Blue) PAG -5.88 [dBi]	(Blue) PAG -5.37 [dBi]	(Blue) PAG -5.20 [dBi]

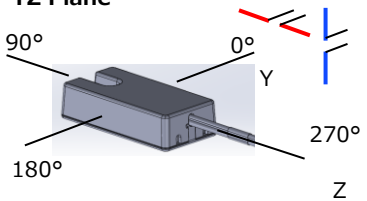
B19

830 [MHz]	837.5 [MHz]	845 [MHz]
Efficiency -6.61 [dBi]	Efficiency -6.32 [dBi]	Efficiency -6.80 [dBi]
Z X面		
H MRG -5.66 [dBi]	H MRG -4.91 [dBi]	H MRG -4.95 [dBi]
(Red) PAG -9.34 [dBi]	(Red) PAG -8.91 [dBi]	(Red) PAG -9.05 [dBi]
V MRG -8.17 [dBi]	V MRG -8.24 [dBi]	V MRG -9.37 [dBi]
(Blue) PAG -10.22 [dBi]	(Blue) PAG -10.45 [dBi]	(Blue) PAG -12.19 [dBi]
Y Z面		
H MRG -4.67 [dBi]	H MRG -4.02 [dBi]	H MRG -4.17 [dBi]
(Red) PAG -7.85 [dBi]	(Red) PAG -7.46 [dBi]	(Red) PAG -7.76 [dBi]
V MRG -14.80 [dBi]	V MRG -14.89 [dBi]	V MRG -15.36 [dBi]
(Blue) PAG -17.94 [dBi]	(Blue) PAG -19.03 [dBi]	(Blue) PAG -20.62 [dBi]
X Y面		
H MRG -9.29 [dBi]	H MRG -8.77 [dBi]	H MRG -9.52 [dBi]
(Red) PAG -13.46 [dBi]	(Red) PAG -12.91 [dBi]	(Red) PAG -13.67 [dBi]
V MRG -4.54 [dBi]	V MRG -4.49 [dBi]	V MRG -4.71 [dBi]
(Blue) PAG -5.20 [dBi]	(Blue) PAG -5.23 [dBi]	(Blue) PAG -5.70 [dBi]

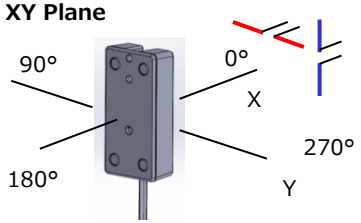
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

B26

814 [MHz]	831.5 [MHz]	849 [MHz]
Efficiency -6.82 [dB]	Efficiency -6.59 [dB]	Efficiency -7.33 [dB]
Z X面		
H MRG -6.11 [dBi]	H MRG -5.53 [dBi]	H MRG -5.30 [dBi]
(Red) PAG -10.37 [dBi]	(Red) PAG -9.29 [dBi]	(Red) PAG -9.35 [dBi]
V MRG -6.54 [dBi]	V MRG -8.33 [dBi]	V MRG -10.54 [dBi]
(Blue) PAG -8.38 [dBi]	(Blue) PAG -10.30 [dBi]	(Blue) PAG -13.80 [dBi]
Y Z面		
H MRG -5.48 [dBi]	H MRG -4.56 [dBi]	H MRG -4.58 [dBi]
(Red) PAG -7.94 [dBi]	(Red) PAG -7.82 [dBi]	(Red) PAG -8.24 [dBi]
V MRG -16.63 [dBi]	V MRG -14.86 [dBi]	V MRG -15.77 [dBi]
(Blue) PAG -19.46 [dBi]	(Blue) PAG -18.17 [dBi]	(Blue) PAG -21.01 [dBi]
X Y面		
H MRG -9.13 [dBi]	H MRG -9.20 [dBi]	H MRG -10.51 [dBi]
(Red) PAG -12.90 [dBi]	(Red) PAG -13.38 [dBi]	(Red) PAG -14.73 [dBi]
V MRG -5.43 [dBi]	V MRG -4.57 [dBi]	V MRG -4.88 [dBi]
(Blue) PAG -5.98 [dBi]	(Blue) PAG -5.24 [dBi]	(Blue) PAG -6.01 [dBi]

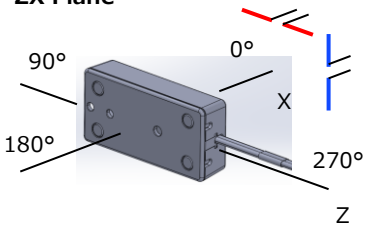
B8

880 [MHz]	897.5 [MHz]	915 [MHz]
Efficiency -9.11 [dB]	Efficiency -8.45 [dB]	Efficiency -7.21 [dB]
Z X面		
H MRG -7.22 [dBi]	H MRG -8.12 [dBi]	H MRG -7.26 [dBi]
(Red) PAG -11.97 [dBi]	(Red) PAG -13.01 [dBi]	(Red) PAG -11.40 [dBi]
V MRG -9.75 [dBi]	V MRG -7.32 [dBi]	V MRG -6.41 [dBi]
(Blue) PAG -13.56 [dBi]	(Blue) PAG -10.83 [dBi]	(Blue) PAG -9.77 [dBi]
Y Z面		
H MRG -7.15 [dBi]	H MRG -7.47 [dBi]	H MRG -5.41 [dBi]
(Red) PAG -11.04 [dBi]	(Red) PAG -11.34 [dBi]	(Red) PAG -9.82 [dBi]
V MRG -11.84 [dBi]	V MRG -9.84 [dBi]	V MRG -9.42 [dBi]
(Blue) PAG -14.86 [dBi]	(Blue) PAG -13.25 [dBi]	(Blue) PAG -12.97 [dBi]
X Y面		
H MRG -12.46 [dBi]	H MRG -14.33 [dBi]	H MRG -11.61 [dBi]
(Red) PAG -17.02 [dBi]	(Red) PAG -18.34 [dBi]	(Red) PAG -16.12 [dBi]
V MRG -7.65 [dBi]	V MRG -8.09 [dBi]	V MRG -7.50 [dBi]
(Blue) PAG -9.68 [dBi]	(Blue) PAG -11.03 [dBi]	(Blue) PAG -10.74 [dBi]

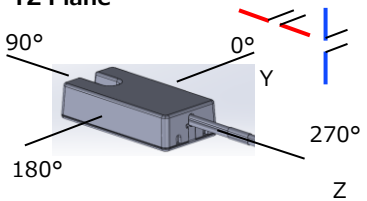
B11

1427.9 [MHz]	1437.9 [MHz]	1447.9 [MHz]
Efficiency -13.92 [dB]	Efficiency -14.02 [dB]	Efficiency -14.18 [dB]
Z X面		
H MRG -11.55 [dBi]	H MRG -11.66 [dBi]	H MRG -11.91 [dBi]
(Red) PAG -16.66 [dBi]	(Red) PAG -17.01 [dBi]	(Red) PAG -17.29 [dBi]
V MRG -13.55 [dBi]	V MRG -12.83 [dBi]	V MRG -12.37 [dBi]
(Blue) PAG -17.10 [dBi]	(Blue) PAG -16.66 [dBi]	(Blue) PAG -16.49 [dBi]
Y Z面		
H MRG -10.93 [dBi]	H MRG -11.73 [dBi]	H MRG -11.81 [dBi]
(Red) PAG -16.24 [dBi]	(Red) PAG -16.69 [dBi]	(Red) PAG -16.94 [dBi]
V MRG -13.70 [dBi]	V MRG -13.60 [dBi]	V MRG -13.74 [dBi]
(Blue) PAG -18.01 [dBi]	(Blue) PAG -17.64 [dBi]	(Blue) PAG -17.58 [dBi]
X Y面		
H MRG -20.68 [dBi]	H MRG -21.46 [dBi]	H MRG -22.50 [dBi]
(Red) PAG -27.64 [dBi]	(Red) PAG -27.83 [dBi]	(Red) PAG -27.89 [dBi]
V MRG -17.13 [dBi]	V MRG -17.61 [dBi]	V MRG -18.34 [dBi]
(Blue) PAG -20.46 [dBi]	(Blue) PAG -21.08 [dBi]	(Blue) PAG -21.83 [dBi]

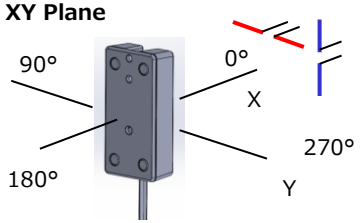
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

B21

1447.9 [MHz]	1455.4 [MHz]	1462.9 [MHz]
Efficiency -14.18 [dB]	Efficiency -14.45 [dB]	Efficiency -14.50 [dB]
Z X面		
H MRG -11.91 [dBi]	H MRG -11.97 [dBi]	H MRG -11.89 [dBi]
(Red) PAG -17.29 [dBi]	(Red) PAG -17.60 [dBi]	(Red) PAG -17.58 [dBi]
V MRG -12.37 [dBi]	V MRG -12.55 [dBi]	V MRG -12.69 [dBi]
(Blue) PAG -16.49 [dBi]	(Blue) PAG -16.55 [dBi]	(Blue) PAG -16.41 [dBi]
Y Z面		
H MRG -11.81 [dBi]	H MRG -11.92 [dBi]	H MRG -11.84 [dBi]
(Red) PAG -16.94 [dBi]	(Red) PAG -17.12 [dBi]	(Red) PAG -17.03 [dBi]
V MRG -13.74 [dBi]	V MRG -13.93 [dBi]	V MRG -13.88 [dBi]
(Blue) PAG -17.58 [dBi]	(Blue) PAG -17.75 [dBi]	(Blue) PAG -17.65 [dBi]
X Y面		
H MRG -22.50 [dBi]	H MRG -22.88 [dBi]	H MRG -22.33 [dBi]
(Red) PAG -27.89 [dBi]	(Red) PAG -27.82 [dBi]	(Red) PAG -27.10 [dBi]
V MRG -18.34 [dBi]	V MRG -19.04 [dBi]	V MRG -18.51 [dBi]
(Blue) PAG -21.83 [dBi]	(Blue) PAG -22.24 [dBi]	(Blue) PAG -22.08 [dBi]

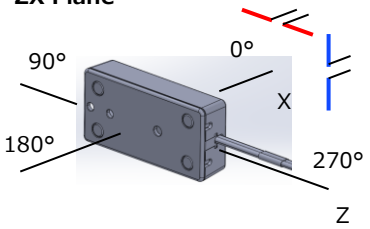
B3

1710 [MHz]	1747.5 [MHz]	1785 [MHz]
Efficiency -8.75 [dB]	Efficiency -7.72 [dB]	Efficiency -6.84 [dB]
Z X面		
H MRG -8.17 [dBi]	H MRG -7.44 [dBi]	H MRG -6.85 [dBi]
(Red) PAG -11.52 [dBi]	(Red) PAG -10.65 [dBi]	(Red) PAG -10.03 [dBi]
V MRG -7.79 [dBi]	V MRG -7.71 [dBi]	V MRG -6.86 [dBi]
(Blue) PAG -11.64 [dBi]	(Blue) PAG -10.16 [dBi]	(Blue) PAG -8.71 [dBi]
Y Z面		
H MRG -5.00 [dBi]	H MRG -4.17 [dBi]	H MRG -3.10 [dBi]
(Red) PAG -9.50 [dBi]	(Red) PAG -8.47 [dBi]	(Red) PAG -7.53 [dBi]
V MRG -13.48 [dBi]	V MRG -13.75 [dBi]	V MRG -15.24 [dBi]
(Blue) PAG -18.17 [dBi]	(Blue) PAG -18.23 [dBi]	(Blue) PAG -19.35 [dBi]
X Y面		
H MRG -11.16 [dBi]	H MRG -10.57 [dBi]	H MRG -10.23 [dBi]
(Red) PAG -15.74 [dBi]	(Red) PAG -14.87 [dBi]	(Red) PAG -13.30 [dBi]
V MRG -8.34 [dBi]	V MRG -6.79 [dBi]	V MRG -5.54 [dBi]
(Blue) PAG -9.38 [dBi]	(Blue) PAG -7.82 [dBi]	(Blue) PAG -6.67 [dBi]

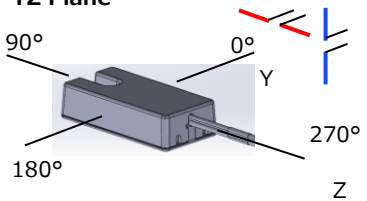
B9

1749.9 [MHz]	1767.4 [MHz]	1784.9 [MHz]
Efficiency -7.66 [dB]	Efficiency -7.26 [dB]	Efficiency -6.84 [dB]
Z X面		
H MRG -7.42 [dBi]	H MRG -7.10 [dBi]	H MRG -6.86 [dBi]
(Red) PAG -10.65 [dBi]	(Red) PAG -10.36 [dBi]	(Red) PAG -10.03 [dBi]
V MRG -7.68 [dBi]	V MRG -7.45 [dBi]	V MRG -6.85 [dBi]
(Blue) PAG -10.03 [dBi]	(Blue) PAG -9.44 [dBi]	(Blue) PAG -8.71 [dBi]
Y Z面		
H MRG -4.05 [dBi]	H MRG -3.58 [dBi]	H MRG -3.12 [dBi]
(Red) PAG -8.41 [dBi]	(Red) PAG -7.97 [dBi]	(Red) PAG -7.54 [dBi]
V MRG -13.85 [dBi]	V MRG -14.49 [dBi]	V MRG -15.20 [dBi]
(Blue) PAG -18.33 [dBi]	(Blue) PAG -18.91 [dBi]	(Blue) PAG -19.36 [dBi]
X Y面		
H MRG -10.56 [dBi]	H MRG -10.55 [dBi]	H MRG -10.27 [dBi]
(Red) PAG -14.72 [dBi]	(Red) PAG -14.14 [dBi]	(Red) PAG -13.31 [dBi]
V MRG -6.74 [dBi]	V MRG -6.24 [dBi]	V MRG -5.55 [dBi]
(Blue) PAG -7.77 [dBi]	(Blue) PAG -7.24 [dBi]	(Blue) PAG -6.68 [dBi]

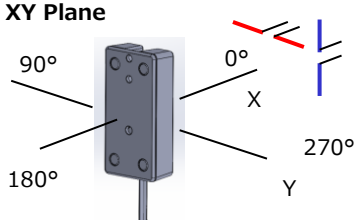
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

B1

1920 [MHz]	1950 [MHz]	1980 [MHz]
Efficiency -7.76 [dBi]	Efficiency -8.06 [dBi]	Efficiency -8.46 [dBi]
Z X面		
H MRG -7.43 [dBi]	H MRG -6.88 [dBi]	H MRG -6.61 [dBi]
(Red) PAG -10.66 [dBi]	(Red) PAG -10.30 [dBi]	(Red) PAG -10.37 [dBi]
V MRG -9.59 [dBi]	V MRG -10.79 [dBi]	V MRG -11.36 [dBi]
(Blue) PAG -12.58 [dBi]	(Blue) PAG -15.18 [dBi]	(Blue) PAG -17.22 [dBi]
Y Z面		
H MRG -3.33 [dBi]	H MRG -3.27 [dBi]	H MRG -3.09 [dBi]
(Red) PAG -8.19 [dBi]	(Red) PAG -8.59 [dBi]	(Red) PAG -8.66 [dBi]
V MRG -17.05 [dBi]	V MRG -16.50 [dBi]	V MRG -15.56 [dBi]
(Blue) PAG -21.48 [dBi]	(Blue) PAG -20.91 [dBi]	(Blue) PAG -20.33 [dBi]
X Y面		
H MRG -13.48 [dBi]	H MRG -15.28 [dBi]	H MRG -16.98 [dBi]
(Red) PAG -16.38 [dBi]	(Red) PAG -18.23 [dBi]	(Red) PAG -21.05 [dBi]
V MRG -3.05 [dBi]	V MRG -2.76 [dBi]	V MRG -2.35 [dBi]
(Blue) PAG -6.88 [dBi]	(Blue) PAG -6.67 [dBi]	(Blue) PAG -6.66 [dBi]

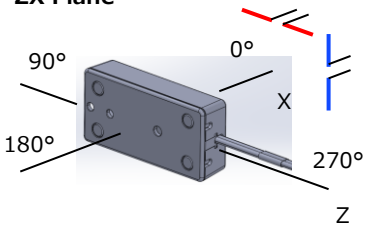
B39

1880 [MHz]	1900 [MHz]	1920 [MHz]
Efficiency -6.87 [dBi]	Efficiency -7.63 [dBi]	Efficiency -7.76 [dBi]
Z X面		
H MRG -7.77 [dBi]	H MRG -7.92 [dBi]	H MRG -7.43 [dBi]
(Red) PAG -10.38 [dBi]	(Red) PAG -10.68 [dBi]	(Red) PAG -10.66 [dBi]
V MRG -6.92 [dBi]	V MRG -8.27 [dBi]	V MRG -9.59 [dBi]
(Blue) PAG -9.37 [dBi]	(Blue) PAG -11.52 [dBi]	(Blue) PAG -12.58 [dBi]
Y Z面		
H MRG -3.02 [dBi]	H MRG -3.46 [dBi]	H MRG -3.33 [dBi]
(Red) PAG -7.39 [dBi]	(Red) PAG -8.08 [dBi]	(Red) PAG -8.19 [dBi]
V MRG -17.60 [dBi]	V MRG -17.30 [dBi]	V MRG -17.05 [dBi]
(Blue) PAG -20.82 [dBi]	(Blue) PAG -20.92 [dBi]	(Blue) PAG -21.48 [dBi]
X Y面		
H MRG -9.61 [dBi]	H MRG -11.89 [dBi]	H MRG -13.48 [dBi]
(Red) PAG -13.01 [dBi]	(Red) PAG -15.17 [dBi]	(Red) PAG -16.38 [dBi]
V MRG -3.33 [dBi]	V MRG -2.99 [dBi]	V MRG -3.05 [dBi]
(Blue) PAG -6.55 [dBi]	(Blue) PAG -6.65 [dBi]	(Blue) PAG -6.88 [dBi]

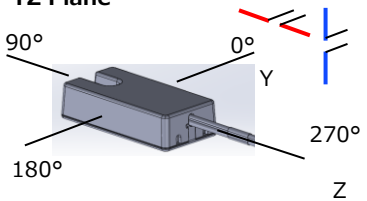
B41

2496 [MHz]	2593 [MHz]	2690 [MHz]
Efficiency -9.13 [dBi]	Efficiency -8.35 [dBi]	Efficiency -8.60 [dBi]
Z X面		
H MRG -7.80 [dBi]	H MRG -6.63 [dBi]	H MRG -6.61 [dBi]
(Red) PAG -11.39 [dBi]	(Red) PAG -10.19 [dBi]	(Red) PAG -10.29 [dBi]
V MRG -11.75 [dBi]	V MRG -10.52 [dBi]	V MRG -10.63 [dBi]
(Blue) PAG -16.24 [dBi]	(Blue) PAG -16.11 [dBi]	(Blue) PAG -16.29 [dBi]
Y Z面		
H MRG -4.49 [dBi]	H MRG -3.81 [dBi]	H MRG -3.48 [dBi]
(Red) PAG -9.96 [dBi]	(Red) PAG -9.33 [dBi]	(Red) PAG -8.98 [dBi]
V MRG -17.67 [dBi]	V MRG -16.27 [dBi]	V MRG -16.12 [dBi]
(Blue) PAG -22.32 [dBi]	(Blue) PAG -19.92 [dBi]	(Blue) PAG -20.50 [dBi]
X Y面		
H MRG -12.18 [dBi]	H MRG -12.07 [dBi]	H MRG -14.12 [dBi]
(Red) PAG -18.21 [dBi]	(Red) PAG -17.89 [dBi]	(Red) PAG -19.70 [dBi]
V MRG -4.63 [dBi]	V MRG -3.77 [dBi]	V MRG -3.43 [dBi]
(Blue) PAG -7.96 [dBi]	(Blue) PAG -7.17 [dBi]	(Blue) PAG -7.18 [dBi]

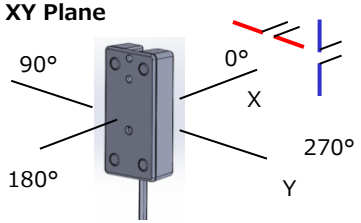
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

B42

3400 [MHz]	3500 [MHz]	3600 [MHz]
Efficiency -9.58 [dBi]	Efficiency -9.49 [dBi]	Efficiency -11.38 [dBi]
Z X面		
H MRG -7.75 [dBi]	H MRG -6.86 [dBi]	H MRG -7.57 [dBi]
(Red) PAG -11.66 [dBi]	(Red) PAG -11.24 [dBi]	(Red) PAG -12.91 [dBi]
V MRG -8.65 [dBi]	V MRG -7.63 [dBi]	V MRG -8.80 [dBi]
(Blue) PAG -15.07 [dBi]	(Blue) PAG -13.81 [dBi]	(Blue) PAG -15.41 [dBi]
Y Z面		
H MRG -5.65 [dBi]	H MRG -6.54 [dBi]	H MRG -8.99 [dBi]
(Red) PAG -10.66 [dBi]	(Red) PAG -11.51 [dBi]	(Red) PAG -12.95 [dBi]
V MRG -16.06 [dBi]	V MRG -14.33 [dBi]	V MRG -13.95 [dBi]
(Blue) PAG -22.00 [dBi]	(Blue) PAG -20.60 [dBi]	(Blue) PAG -20.31 [dBi]
X Y面		
H MRG -11.74 [dBi]	H MRG -10.68 [dBi]	H MRG -12.84 [dBi]
(Red) PAG -16.47 [dBi]	(Red) PAG -15.17 [dBi]	(Red) PAG -17.52 [dBi]
V MRG -3.93 [dBi]	V MRG -5.05 [dBi]	V MRG -7.62 [dBi]
(Blue) PAG -7.29 [dBi]	(Blue) PAG -8.01 [dBi]	(Blue) PAG -10.87 [dBi]

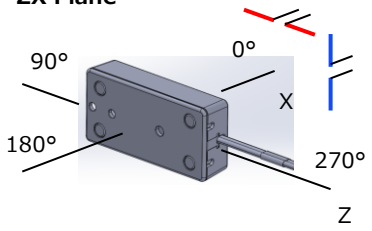
n77

3300 [MHz]	3750 [MHz]	4200 [MHz]
Efficiency -9.19 [dBi]	Efficiency -14.19 [dBi]	Efficiency -12.26 [dBi]
Z X面		
H MRG -7.27 [dBi]	H MRG -12.87 [dBi]	H MRG -6.51 [dBi]
(Red) PAG -11.40 [dBi]	(Red) PAG -17.89 [dBi]	(Red) PAG -11.52 [dBi]
V MRG -8.57 [dBi]	V MRG -9.97 [dBi]	V MRG -16.89 [dBi]
(Blue) PAG -15.55 [dBi]	(Blue) PAG -15.16 [dBi]	(Blue) PAG -21.61 [dBi]
Y Z面		
H MRG -4.27 [dBi]	H MRG -10.07 [dBi]	H MRG -11.69 [dBi]
(Red) PAG -9.65 [dBi]	(Red) PAG -14.67 [dBi]	(Red) PAG -15.77 [dBi]
V MRG -16.61 [dBi]	V MRG -16.66 [dBi]	V MRG -21.26 [dBi]
(Blue) PAG -21.95 [dBi]	(Blue) PAG -23.08 [dBi]	(Blue) PAG -25.95 [dBi]
X Y面		
H MRG -14.42 [dBi]	H MRG -13.91 [dBi]	H MRG -20.53 [dBi]
(Red) PAG -19.73 [dBi]	(Red) PAG -19.08 [dBi]	(Red) PAG -25.49 [dBi]
V MRG -3.06 [dBi]	V MRG -13.00 [dBi]	V MRG -7.63 [dBi]
(Blue) PAG -6.88 [dBi]	(Blue) PAG -16.04 [dBi]	(Blue) PAG -11.82 [dBi]

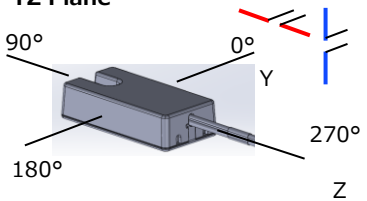
n78

3300 [MHz]	3550 [MHz]	3800 [MHz]
Efficiency -9.19 [dBi]	Efficiency -10.34 [dBi]	Efficiency -14.28 [dBi]
Z X面		
H MRG -7.27 [dBi]	H MRG -7.07 [dBi]	H MRG -13.15 [dBi]
(Red) PAG -11.40 [dBi]	(Red) PAG -12.07 [dBi]	(Red) PAG -18.53 [dBi]
V MRG -8.57 [dBi]	V MRG -8.06 [dBi]	V MRG -9.96 [dBi]
(Blue) PAG -15.55 [dBi]	(Blue) PAG -14.46 [dBi]	(Blue) PAG -14.07 [dBi]
Y Z面		
H MRG -4.27 [dBi]	H MRG -7.97 [dBi]	H MRG -9.91 [dBi]
(Red) PAG -9.65 [dBi]	(Red) PAG -12.18 [dBi]	(Red) PAG -14.73 [dBi]
V MRG -16.61 [dBi]	V MRG -14.13 [dBi]	V MRG -16.82 [dBi]
(Blue) PAG -21.95 [dBi]	(Blue) PAG -20.37 [dBi]	(Blue) PAG -23.44 [dBi]
X Y面		
H MRG -14.42 [dBi]	H MRG -11.41 [dBi]	H MRG -14.35 [dBi]
(Red) PAG -19.73 [dBi]	(Red) PAG -16.28 [dBi]	(Red) PAG -19.17 [dBi]
V MRG -3.06 [dBi]	V MRG -6.40 [dBi]	V MRG -12.77 [dBi]
(Blue) PAG -6.88 [dBi]	(Blue) PAG -9.45 [dBi]	(Blue) PAG -16.76 [dBi]

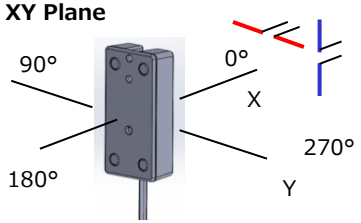
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

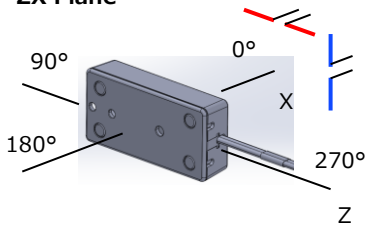
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

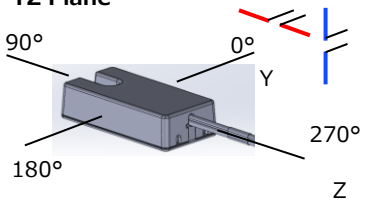
n79

Sub-GHz Band

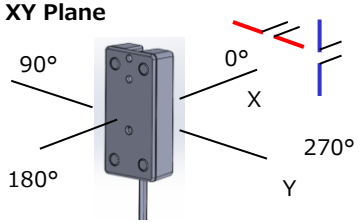
ZX Plane



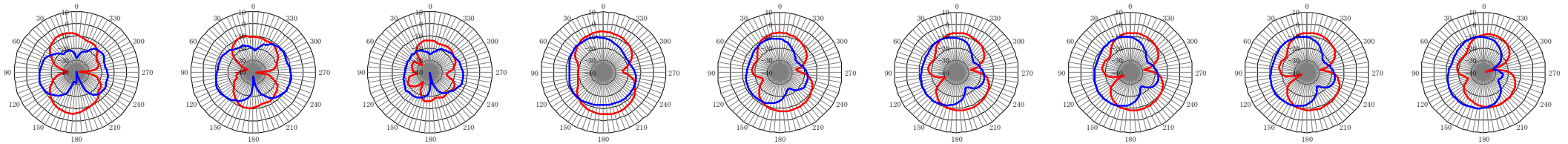
YZ Plane

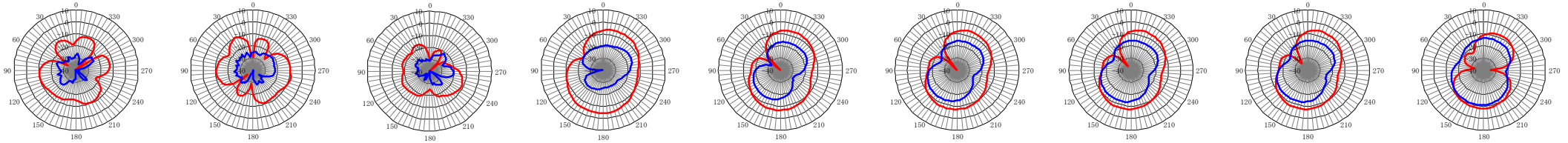


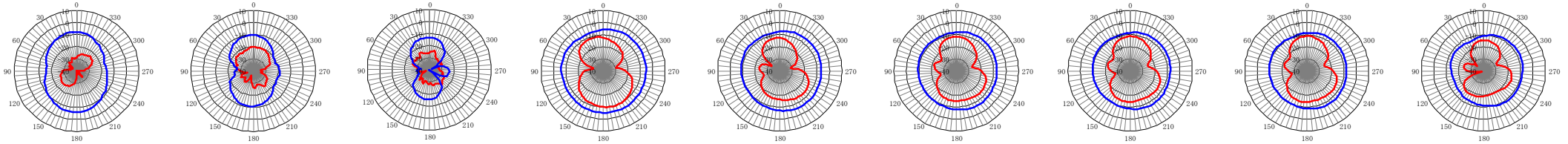
XY Plane



	4400 [MHz]	4700 [MHz]	5000 [MHz]	845 [MHz]	860 [MHz]	865 [MHz]	868 [MHz]	869 [MHz]	890 [MHz]
Efficiency	-10.95 [dB]	-11.76 [dB]	-16.08 [dB]	-6.80 [dB]	-8.53 [dB]	-8.47 [dB]	-8.40 [dB]	-8.40 [dB]	-9.15 [dB]
Z X面									
H MRG	-5.61 [dBi]	-9.06 [dBi]	-13.52 [dBi]	-4.95 [dBi]	-6.93 [dBi]	-7.02 [dBi]	-6.97 [dBi]	-6.97 [dBi]	-7.88 [dBi]
(Red) PAG	-11.15 [dBi]	-14.16 [dBi]	-18.11 [dBi]	-9.05 [dBi]	-10.81 [dBi]	-11.14 [dBi]	-11.24 [dBi]	-11.27 [dBi]	-12.93 [dBi]
V MRG	-9.40 [dBi]	-8.38 [dBi]	-12.52 [dBi]	-9.37 [dBi]	-11.17 [dBi]	-9.88 [dBi]	-9.32 [dBi]	-9.19 [dBi]	-8.97 [dBi]
(Blue) PAG	-15.05 [dBi]	-12.22 [dBi]	-17.59 [dBi]	-12.19 [dBi]	-14.48 [dBi]	-13.17 [dBi]	-12.66 [dBi]	-12.58 [dBi]	-12.50 [dBi]
Y Z面									
H MRG	-10.06 [dBi]	-8.79 [dBi]	-11.24 [dBi]	-4.17 [dBi]	-6.52 [dBi]	-6.11 [dBi]	-5.98 [dBi]	-5.98 [dBi]	-7.81 [dBi]
(Red) PAG	-13.57 [dBi]	-12.85 [dBi]	-17.30 [dBi]	-7.76 [dBi]	-9.75 [dBi]	-9.92 [dBi]	-9.97 [dBi]	-10.01 [dBi]	-11.74 [dBi]
V MRG	-23.61 [dBi]	-20.94 [dBi]	-20.44 [dBi]	-15.36 [dBi]	-14.77 [dBi]	-13.35 [dBi]	-12.81 [dBi]	-12.63 [dBi]	-10.83 [dBi]
(Blue) PAG	-28.37 [dBi]	-25.58 [dBi]	-26.94 [dBi]	-20.62 [dBi]	-18.13 [dBi]	-16.82 [dBi]	-16.22 [dBi]	-16.05 [dBi]	-14.02 [dBi]
X Y面									
H MRG	-23.46 [dBi]	-19.87 [dBi]	-23.46 [dBi]	-9.52 [dBi]	-12.49 [dBi]	-11.60 [dBi]	-11.16 [dBi]	-11.07 [dBi]	-14.36 [dBi]
(Red) PAG	-28.68 [dBi]	-24.92 [dBi]	-27.68 [dBi]	-13.67 [dBi]	-17.00 [dBi]	-16.17 [dBi]	-15.69 [dBi]	-15.58 [dBi]	-19.03 [dBi]
V MRG	-5.74 [dBi]	-9.97 [dBi]	-12.96 [dBi]	-4.71 [dBi]	-5.96 [dBi]	-6.59 [dBi]	-7.00 [dBi]	-7.12 [dBi]	-7.83 [dBi]
(Blue) PAG	-9.97 [dBi]	-14.50 [dBi]	-18.71 [dBi]	-5.70 [dBi]	-7.27 [dBi]	-7.93 [dBi]	-8.36 [dBi]	-8.50 [dBi]	-10.39 [dBi]







水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

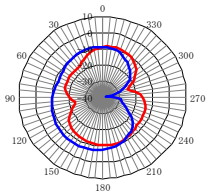
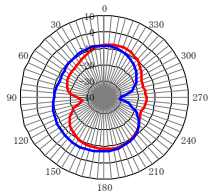
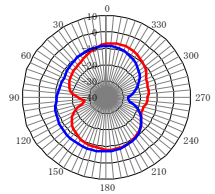
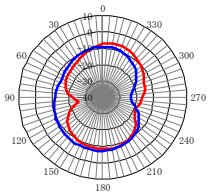
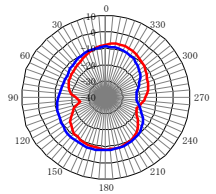
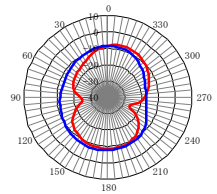
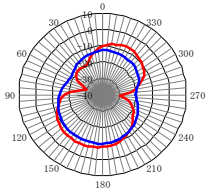
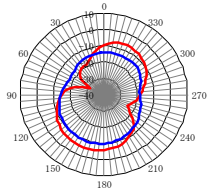
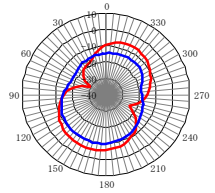
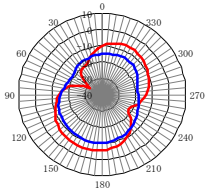
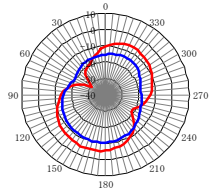
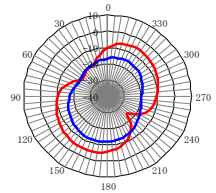
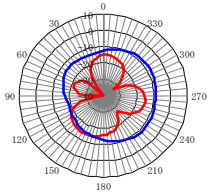
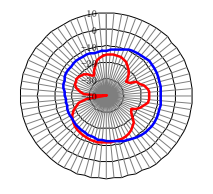
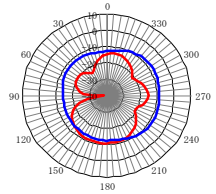
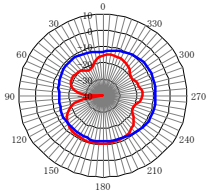
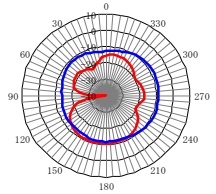
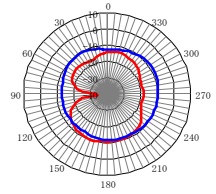
MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

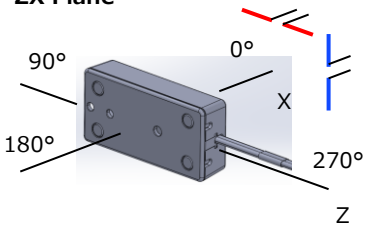
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

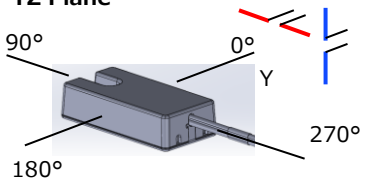
Sub-GHz Band

902 [MHz]	915 [MHz]	922 [MHz]	928 [MHz]	930 [MHz]	940 [MHz]
Efficiency -8.10 [dB]	Efficiency -7.21 [dB]	Efficiency -7.09 [dB]	Efficiency -7.30 [dB]	Efficiency -7.32 [dB]	Efficiency -7.40 [dB]
Z X面			**Z X面**		
H MRG -8.16 [dBi]	H MRG -7.26 [dBi]	H MRG -6.49 [dBi]	H MRG -6.52 [dBi]	H MRG -6.63 [dBi]	H MRG -7.31 [dBi]
(Red) PAG -12.70 [dBi]	(Red) PAG -11.40 [dBi]	(Red) PAG -11.00 [dBi]	(Red) PAG -11.07 [dBi]	(Red) PAG -11.10 [dBi]	(Red) PAG -11.58 [dBi]
V MRG -6.92 [dBi]	V MRG -6.41 [dBi]	V MRG -6.61 [dBi]	V MRG -7.22 [dBi]	V MRG -7.37 [dBi]	V MRG -7.51 [dBi]
(Blue) PAG -10.41 [dBi]	(Blue) PAG -9.77 [dBi]	(Blue) PAG -9.92 [dBi]	(Blue) PAG -10.43 [dBi]	(Blue) PAG -10.52 [dBi]	(Blue) PAG -10.28 [dBi]
					
Y Z面			**Y Z面**		
H MRG -6.96 [dBi]	H MRG -5.41 [dBi]	H MRG -5.21 [dBi]	H MRG -5.10 [dBi]	H MRG -4.96 [dBi]	H MRG -4.67 [dBi]
(Red) PAG -11.01 [dBi]	(Red) PAG -9.82 [dBi]	(Red) PAG -9.49 [dBi]	(Red) PAG -9.44 [dBi]	(Red) PAG -9.32 [dBi]	(Red) PAG -8.72 [dBi]
V MRG -9.61 [dBi]	V MRG -9.42 [dBi]	V MRG -9.56 [dBi]	V MRG -10.11 [dBi]	V MRG -10.30 [dBi]	V MRG -11.59 [dBi]
(Blue) PAG -13.02 [dBi]	(Blue) PAG -12.97 [dBi]	(Blue) PAG -13.16 [dBi]	(Blue) PAG -13.72 [dBi]	(Blue) PAG -13.94 [dBi]	(Blue) PAG -15.47 [dBi]
					
X Y面			**X Y面**		
H MRG -14.14 [dBi]	H MRG -11.61 [dBi]	H MRG -10.82 [dBi]	H MRG -10.66 [dBi]	H MRG -10.56 [dBi]	H MRG -10.20 [dBi]
(Red) PAG -18.19 [dBi]	(Red) PAG -16.12 [dBi]	(Red) PAG -15.25 [dBi]	(Red) PAG -15.07 [dBi]	(Red) PAG -14.99 [dBi]	(Red) PAG -14.16 [dBi]
V MRG -7.94 [dBi]	V MRG -7.50 [dBi]	V MRG -7.90 [dBi]	V MRG -8.24 [dBi]	V MRG -8.27 [dBi]	V MRG -8.64 [dBi]
(Blue) PAG -11.17 [dBi]	(Blue) PAG -10.74 [dBi]	(Blue) PAG -10.80 [dBi]	(Blue) PAG -10.94 [dBi]	(Blue) PAG -10.94 [dBi]	(Blue) PAG -11.06 [dBi]
					

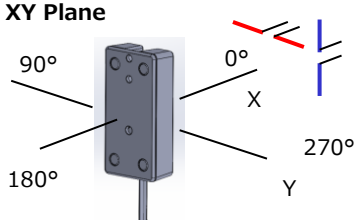
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

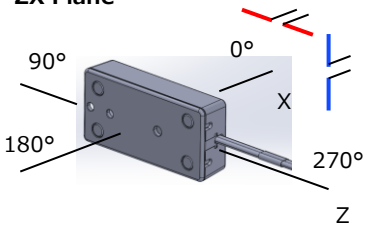
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

2.4GHz Band (Wi-Fi , etc.)

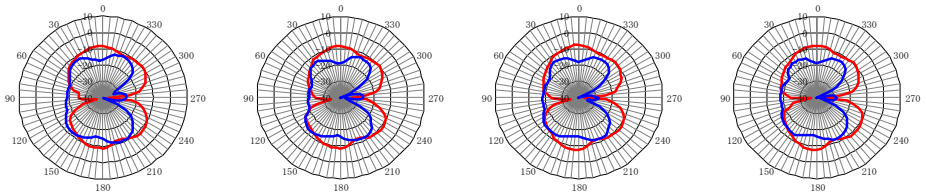
2400 [MHz]	2442 [MHz]	2483.5 [MHz]	2500 [MHz]
Efficiency -8.96 [dB]	Efficiency -9.02 [dB]	Efficiency -8.96 [dB]	Efficiency -9.13 [dB]

ZX Plane

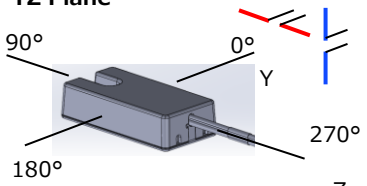


Z X面

	2400 [MHz]	2442 [MHz]	2483.5 [MHz]	2500 [MHz]
H	MRG -8.11 [dBi]	MRG -8.02 [dBi]	MRG -7.63 [dBi]	MRG -7.80 [dBi]
(Red)	PAG -11.73 [dBi]	PAG -11.85 [dBi]	PAG -11.28 [dBi]	PAG -11.41 [dBi]
V	MRG -10.67 [dBi]	MRG -11.37 [dBi]	MRG -11.40 [dBi]	MRG -11.80 [dBi]
(Blue)	PAG -14.86 [dBi]	PAG -15.84 [dBi]	PAG -15.83 [dBi]	PAG -16.32 [dBi]

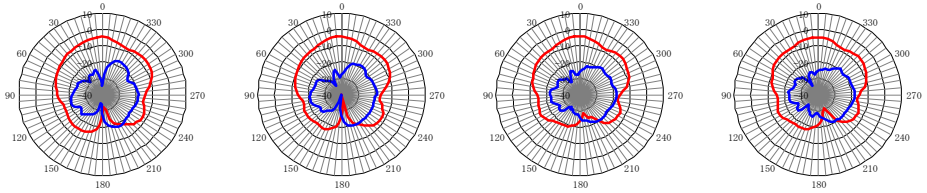


YZ Plane

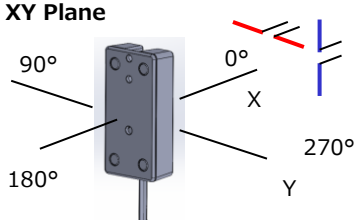


Y Z面

	2400 [MHz]	2442 [MHz]	2483.5 [MHz]	2500 [MHz]
H	MRG -4.39 [dBi]	MRG -4.26 [dBi]	MRG -4.15 [dBi]	MRG -4.52 [dBi]
(Red)	PAG -9.93 [dBi]	PAG -9.95 [dBi]	PAG -9.75 [dBi]	PAG -9.98 [dBi]
V	MRG -17.48 [dBi]	MRG -18.55 [dBi]	MRG -18.01 [dBi]	MRG -17.79 [dBi]
(Blue)	PAG -21.39 [dBi]	PAG -21.92 [dBi]	PAG -22.22 [dBi]	PAG -22.30 [dBi]

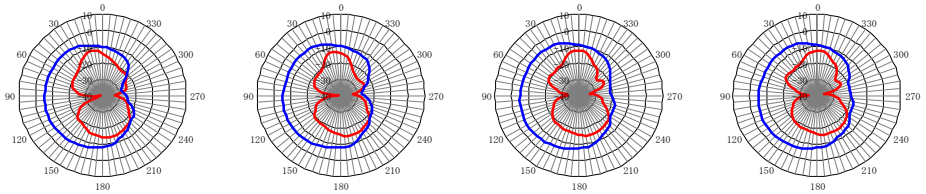


XY Plane



X Y面

	2400 [MHz]	2442 [MHz]	2483.5 [MHz]	2500 [MHz]
H	MRG -11.64 [dBi]	MRG -12.58 [dBi]	MRG -12.12 [dBi]	MRG -12.19 [dBi]
(Red)	PAG -17.79 [dBi]	PAG -18.77 [dBi]	PAG -18.08 [dBi]	PAG -18.25 [dBi]
V	MRG -4.96 [dBi]	MRG -5.03 [dBi]	MRG -4.39 [dBi]	MRG -4.68 [dBi]
(Blue)	PAG -8.47 [dBi]	PAG -8.40 [dBi]	PAG -7.76 [dBi]	PAG -8.00 [dBi]



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

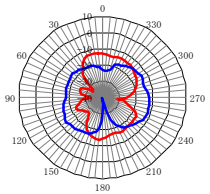
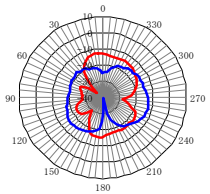
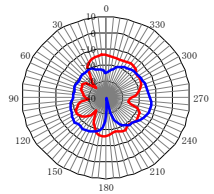
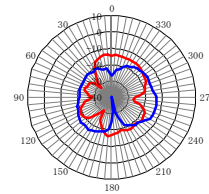
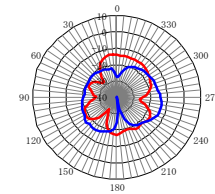
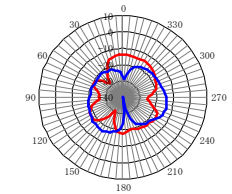
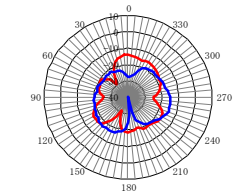
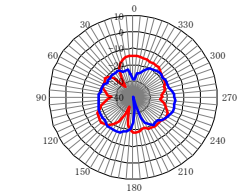
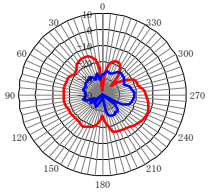
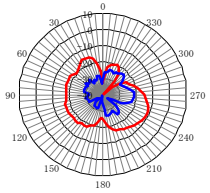
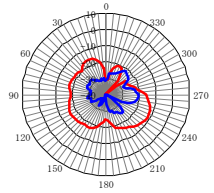
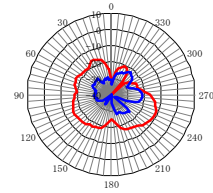
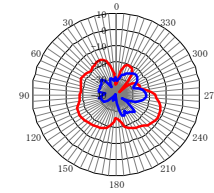
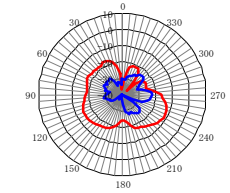
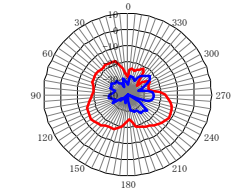
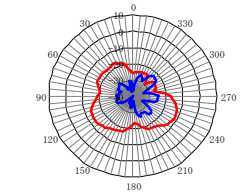
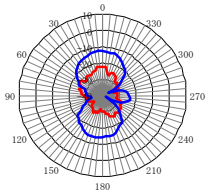
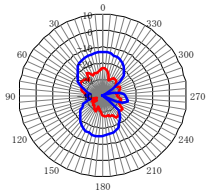
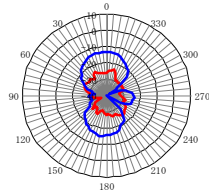
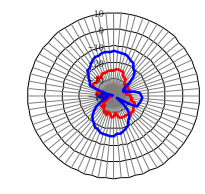
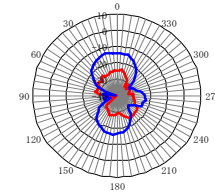
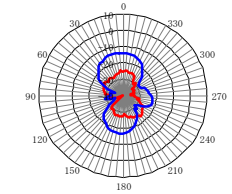
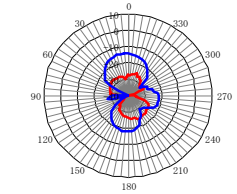
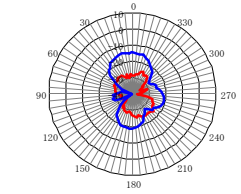
MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

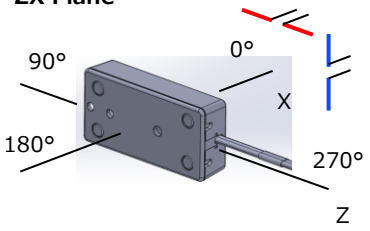
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

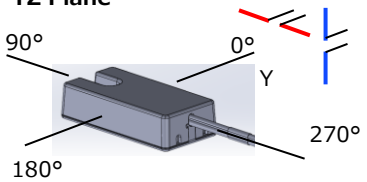
5GHz Band (Wi-Fi , etc.)

4900 [MHz]	4950 [MHz]	5000 [MHz]	5030 [MHz]	5060.5 [MHz]	5091 [MHz]	5150 [MHz]	5200 [MHz]
Efficiency -14.83 [dB]	Efficiency -15.56 [dB]	Efficiency -16.08 [dB]	Efficiency -16.02 [dB]	Efficiency -16.26 [dB]	Efficiency -16.34 [dB]	Efficiency -16.54 [dB]	Efficiency -16.59 [dB]
Z X面							
H MRG -12.20 [dBi]	H MRG -12.61 [dBi]	H MRG -13.52 [dBi]	H MRG -13.54 [dBi]	H MRG -13.50 [dBi]	H MRG -13.44 [dBi]	H MRG -13.61 [dBi]	H MRG -14.52 [dBi]
(Red) PAG -17.15 [dBi]	(Red) PAG -17.66 [dBi]	(Red) PAG -18.11 [dBi]	(Red) PAG -18.24 [dBi]	(Red) PAG -18.27 [dBi]	(Red) PAG -18.26 [dBi]	(Red) PAG -18.53 [dBi]	(Red) PAG -18.63 [dBi]
V MRG -11.19 [dBi]	V MRG -12.08 [dBi]	V MRG -12.52 [dBi]	V MRG -12.85 [dBi]	V MRG -13.04 [dBi]	V MRG -13.51 [dBi]	V MRG -14.18 [dBi]	V MRG -14.46 [dBi]
(Blue) PAG -15.90 [dBi]	(Blue) PAG -17.05 [dBi]	(Blue) PAG -17.59 [dBi]	(Blue) PAG -17.71 [dBi]	(Blue) PAG -17.95 [dBi]	(Blue) PAG -18.31 [dBi]	(Blue) PAG -18.95 [dBi]	(Blue) PAG -19.02 [dBi]
							
Y Z面							
H MRG -10.50 [dBi]	H MRG -11.13 [dBi]	H MRG -11.24 [dBi]	H MRG -11.25 [dBi]	H MRG -11.34 [dBi]	H MRG -11.46 [dBi]	H MRG -11.58 [dBi]	H MRG -11.72 [dBi]
(Red) PAG -16.36 [dBi]	(Red) PAG -17.00 [dBi]	(Red) PAG -17.30 [dBi]	(Red) PAG -17.23 [dBi]	(Red) PAG -17.25 [dBi]	(Red) PAG -17.31 [dBi]	(Red) PAG -17.29 [dBi]	(Red) PAG -17.13 [dBi]
V MRG -20.76 [dBi]	V MRG -21.02 [dBi]	V MRG -20.44 [dBi]	V MRG -20.88 [dBi]	V MRG -21.69 [dBi]	V MRG -22.33 [dBi]	V MRG -22.29 [dBi]	V MRG -22.37 [dBi]
(Blue) PAG -26.52 [dBi]	(Blue) PAG -26.89 [dBi]	(Blue) PAG -26.94 [dBi]	(Blue) PAG -27.22 [dBi]	(Blue) PAG -27.72 [dBi]	(Blue) PAG -28.07 [dBi]	(Blue) PAG -28.78 [dBi]	(Blue) PAG -28.94 [dBi]
							
X Y面							
H MRG -21.43 [dBi]	H MRG -22.85 [dBi]	H MRG -23.46 [dBi]	H MRG -23.49 [dBi]	H MRG -23.78 [dBi]	H MRG -23.54 [dBi]	H MRG -24.31 [dBi]	H MRG -23.80 [dBi]
(Red) PAG -27.00 [dBi]	(Red) PAG -27.47 [dBi]	(Red) PAG -27.68 [dBi]	(Red) PAG -27.61 [dBi]	(Red) PAG -27.75 [dBi]	(Red) PAG -27.91 [dBi]	(Red) PAG -28.39 [dBi]	(Red) PAG -28.22 [dBi]
V MRG -12.30 [dBi]	V MRG -12.95 [dBi]	V MRG -12.96 [dBi]	V MRG -13.12 [dBi]	V MRG -13.52 [dBi]	V MRG -13.48 [dBi]	V MRG -13.78 [dBi]	V MRG -14.07 [dBi]
(Blue) PAG -17.77 [dBi]	(Blue) PAG -18.40 [dBi]	(Blue) PAG -18.71 [dBi]	(Blue) PAG -19.02 [dBi]	(Blue) PAG -19.39 [dBi]	(Blue) PAG -19.49 [dBi]	(Blue) PAG -20.10 [dBi]	(Blue) PAG -20.23 [dBi]
							

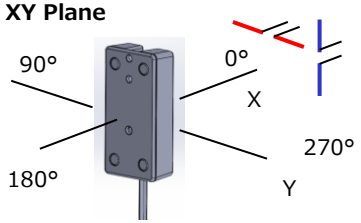
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

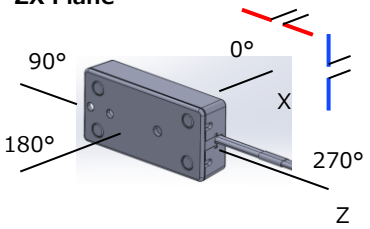
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1107

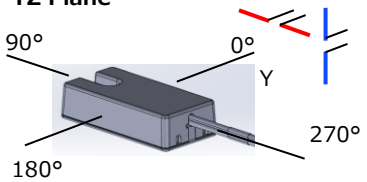
5GHz Band (Wi-Fi , etc.)

	5350 [MHz]	5500 [MHz]	5650 [MHz]	5750 [MHz]	5850 [MHz]
Efficiency	-17.18 [dB]	-17.83 [dB]	-17.66 [dB]	-16.64 [dB]	-16.69 [dB]
Z X面					
H MRG	-14.62 [dBi]	-14.47 [dBi]	-14.03 [dBi]	-12.40 [dBi]	-12.84 [dBi]
(Red) PAG	-19.78 [dBi]	-20.59 [dBi]	-19.28 [dBi]	-17.82 [dBi]	-18.29 [dBi]
V MRG	-15.26 [dBi]	-15.13 [dBi]	-15.64 [dBi]	-15.86 [dBi]	-14.96 [dBi]
(Blue) PAG	-18.88 [dBi]	-19.73 [dBi]	-20.32 [dBi]	-19.59 [dBi]	-20.31 [dBi]
Y Z面					
H MRG	-12.10 [dBi]	-12.53 [dBi]	-13.70 [dBi]	-11.54 [dBi]	-11.67 [dBi]
(Red) PAG	-17.58 [dBi]	-18.36 [dBi]	-18.30 [dBi]	-17.00 [dBi]	-17.09 [dBi]
V MRG	-23.57 [dBi]	-23.78 [dBi]	-19.48 [dBi]	-21.12 [dBi]	-21.47 [dBi]
(Blue) PAG	-29.52 [dBi]	-27.90 [dBi]	-25.29 [dBi]	-26.51 [dBi]	-26.28 [dBi]
X Y面					
H MRG	-21.27 [dBi]	-17.90 [dBi]	-17.14 [dBi]	-17.81 [dBi]	-20.15 [dBi]
(Red) PAG	-26.12 [dBi]	-22.69 [dBi]	-20.97 [dBi]	-23.62 [dBi]	-26.76 [dBi]
V MRG	-14.99 [dBi]	-17.45 [dBi]	-16.81 [dBi]	-15.12 [dBi]	-13.51 [dBi]
(Blue) PAG	-20.98 [dBi]	-21.80 [dBi]	-22.36 [dBi]	-20.53 [dBi]	-18.90 [dBi]

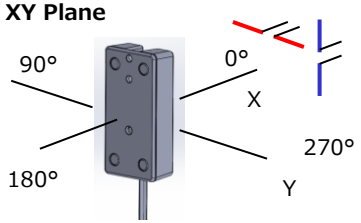
ZX Plane

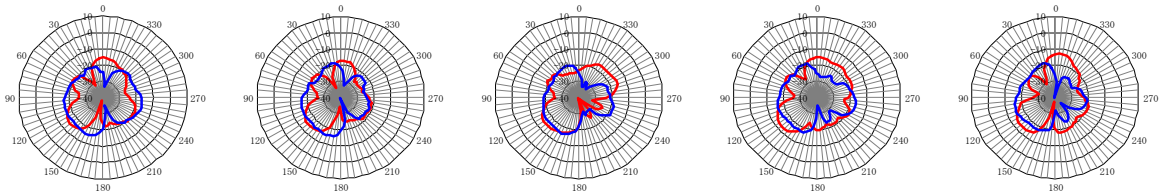


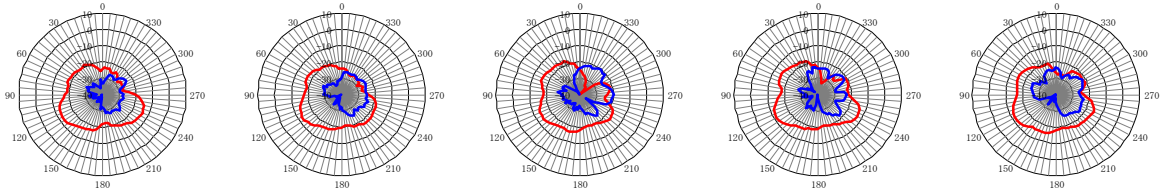
YZ Plane

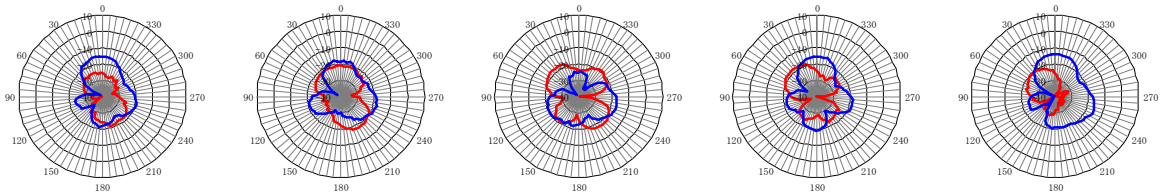


XY Plane









水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

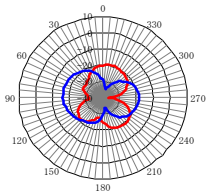
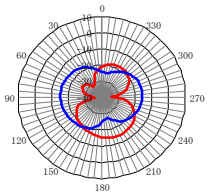
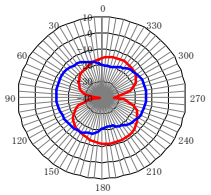
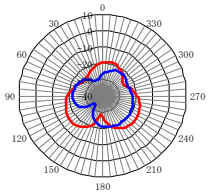
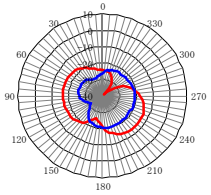
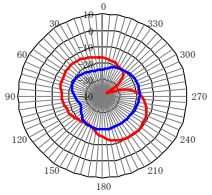
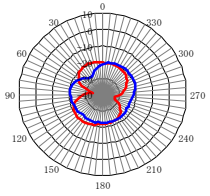
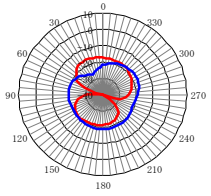
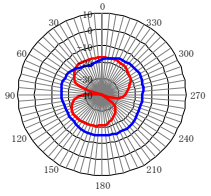
MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

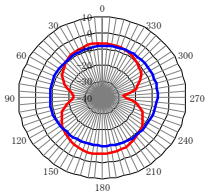
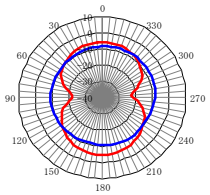
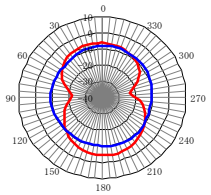
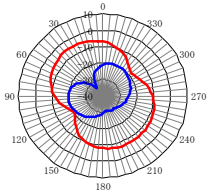
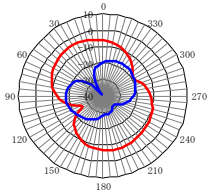
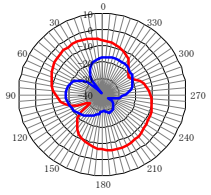
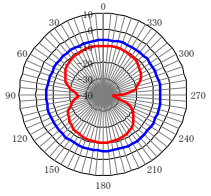
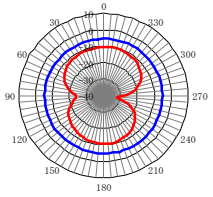
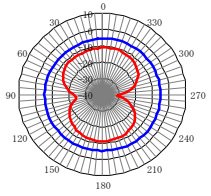
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1108

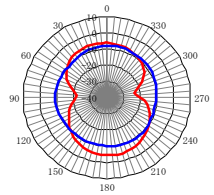
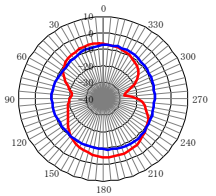
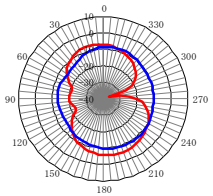
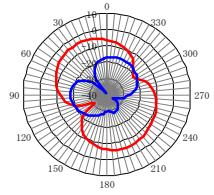
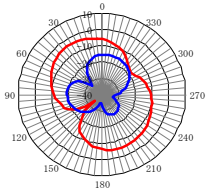
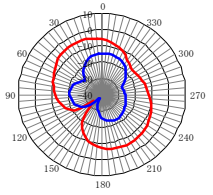
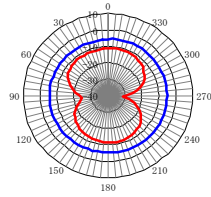
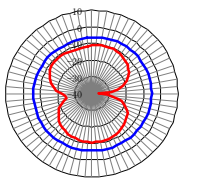
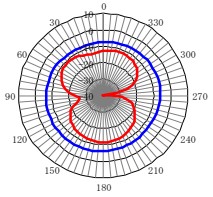
B28

703 [MHz]	725.5 [MHz]	748 [MHz]
Efficiency -19.02 [dB]	Efficiency -16.96 [dB]	Efficiency -13.56 [dB]
Z X面		
H MRG -19.03 [dBi]	H MRG -14.50 [dBi]	H MRG -11.20 [dBi]
(Red) PAG -22.79 [dBi]	(Red) PAG -19.51 [dBi]	(Red) PAG -15.83 [dBi]
V MRG -16.08 [dBi]	V MRG -15.27 [dBi]	V MRG -12.35 [dBi]
(Blue) PAG -20.56 [dBi]	(Blue) PAG -18.08 [dBi]	(Blue) PAG -15.16 [dBi]
		
Y Z面		
H MRG -15.30 [dBi]	H MRG -12.91 [dBi]	H MRG -10.32 [dBi]
(Red) PAG -19.07 [dBi]	(Red) PAG -17.84 [dBi]	(Red) PAG -15.03 [dBi]
V MRG -19.80 [dBi]	V MRG -20.27 [dBi]	V MRG -17.84 [dBi]
(Blue) PAG -22.99 [dBi]	(Blue) PAG -23.13 [dBi]	(Blue) PAG -20.61 [dBi]
		
X Y面		
H MRG -19.18 [dBi]	H MRG -16.40 [dBi]	H MRG -16.63 [dBi]
(Red) PAG -22.19 [dBi]	(Red) PAG -20.60 [dBi]	(Red) PAG -20.35 [dBi]
V MRG -19.12 [dBi]	V MRG -17.15 [dBi]	V MRG -14.40 [dBi]
(Blue) PAG -21.66 [dBi]	(Blue) PAG -19.67 [dBi]	(Blue) PAG -15.87 [dBi]
		

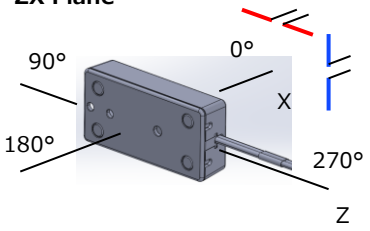
B18

815 [MHz]	822.5 [MHz]	830 [MHz]
Efficiency -6.74 [dB]	Efficiency -6.46 [dB]	Efficiency -6.40 [dB]
Z X面		
H MRG -5.02 [dBi]	H MRG -4.36 [dBi]	H MRG -4.25 [dBi]
(Red) PAG -8.94 [dBi]	(Red) PAG -8.35 [dBi]	(Red) PAG -8.53 [dBi]
V MRG -6.67 [dBi]	V MRG -7.75 [dBi]	V MRG -7.76 [dBi]
(Blue) PAG -8.49 [dBi]	(Blue) PAG -9.27 [dBi]	(Blue) PAG -9.50 [dBi]
		
Y Z面		
H MRG -4.69 [dBi]	H MRG -4.33 [dBi]	H MRG -4.07 [dBi]
(Red) PAG -8.77 [dBi]	(Red) PAG -8.48 [dBi]	(Red) PAG -8.24 [dBi]
V MRG -19.57 [dBi]	V MRG -17.47 [dBi]	V MRG -16.42 [dBi]
(Blue) PAG -23.13 [dBi]	(Blue) PAG -21.28 [dBi]	(Blue) PAG -21.03 [dBi]
		
X Y面		
H MRG -9.76 [dBi]	H MRG -10.36 [dBi]	H MRG -10.92 [dBi]
(Red) PAG -12.82 [dBi]	(Red) PAG -13.20 [dBi]	(Red) PAG -13.59 [dBi]
V MRG -5.12 [dBi]	V MRG -4.51 [dBi]	V MRG -4.80 [dBi]
(Blue) PAG -5.90 [dBi]	(Blue) PAG -5.22 [dBi]	(Blue) PAG -5.38 [dBi]
		

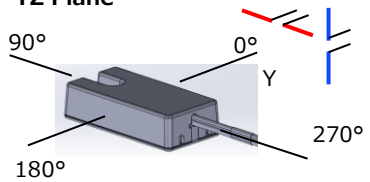
B19

830 [MHz]	837.5 [MHz]	845 [MHz]
Efficiency -6.40 [dB]	Efficiency -6.33 [dB]	Efficiency -7.10 [dB]
Z X面		
H MRG -4.25 [dBi]	H MRG -4.40 [dBi]	H MRG -5.30 [dBi]
(Red) PAG -8.53 [dBi]	(Red) PAG -8.93 [dBi]	(Red) PAG -9.81 [dBi]
V MRG -7.76 [dBi]	V MRG -7.18 [dBi]	V MRG -8.20 [dBi]
(Blue) PAG -9.50 [dBi]	(Blue) PAG -9.16 [dBi]	(Blue) PAG -10.55 [dBi]
		
Y Z面		
H MRG -4.07 [dBi]	H MRG -3.81 [dBi]	H MRG -4.38 [dBi]
(Red) PAG -8.24 [dBi]	(Red) PAG -8.01 [dBi]	(Red) PAG -8.56 [dBi]
V MRG -16.42 [dBi]	V MRG -15.14 [dBi]	V MRG -14.52 [dBi]
(Blue) PAG -21.03 [dBi]	(Blue) PAG -20.96 [dBi]	(Blue) PAG -20.73 [dBi]
		
X Y面		
H MRG -10.92 [dBi]	H MRG -10.61 [dBi]	H MRG -11.14 [dBi]
(Red) PAG -13.59 [dBi]	(Red) PAG -13.17 [dBi]	(Red) PAG -14.08 [dBi]
V MRG -4.80 [dBi]	V MRG -5.23 [dBi]	V MRG -5.71 [dBi]
(Blue) PAG -5.38 [dBi]	(Blue) PAG -5.79 [dBi]	(Blue) PAG -6.52 [dBi]
		

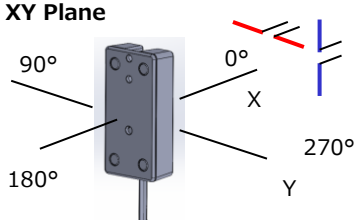
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1108

B26

814 [MHz]	831.5 [MHz]	849 [MHz]
Efficiency -6.80 [dB]	Efficiency -6.41 [dB]	Efficiency -7.63 [dB]
Z X面		
H MRG -5.16 [dBi]	H MRG -4.29 [dBi]	H MRG -5.77 [dBi]
(Red) PAG -9.05 [dBi]	(Red) PAG -8.63 [dBi]	(Red) PAG -10.13 [dBi]
V MRG -6.67 [dBi]	V MRG -7.64 [dBi]	V MRG -9.31 [dBi]
(Blue) PAG -8.44 [dBi]	(Blue) PAG -9.42 [dBi]	(Blue) PAG -11.65 [dBi]
Y Z面		
H MRG -4.76 [dBi]	H MRG -4.07 [dBi]	H MRG -4.99 [dBi]
(Red) PAG -8.83 [dBi]	(Red) PAG -8.24 [dBi]	(Red) PAG -9.01 [dBi]
V MRG -19.82 [dBi]	V MRG -16.24 [dBi]	V MRG -14.34 [dBi]
(Blue) PAG -23.48 [dBi]	(Blue) PAG -21.09 [dBi]	(Blue) PAG -19.97 [dBi]
X Y面		
H MRG -9.75 [dBi]	H MRG -10.89 [dBi]	H MRG -11.35 [dBi]
(Red) PAG -12.83 [dBi]	(Red) PAG -13.55 [dBi]	(Red) PAG -15.01 [dBi]
V MRG -5.24 [dBi]	V MRG -4.98 [dBi]	V MRG -5.91 [dBi]
(Blue) PAG -6.03 [dBi]	(Blue) PAG -5.52 [dBi]	(Blue) PAG -6.91 [dBi]

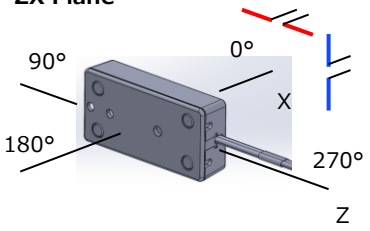
B8

880 [MHz]	897.5 [MHz]	915 [MHz]
Efficiency -8.73 [dB]	Efficiency -9.44 [dB]	Efficiency -9.43 [dB]
Z X面		
H MRG -6.91 [dBi]	H MRG -7.15 [dBi]	H MRG -7.13 [dBi]
(Red) PAG -10.92 [dBi]	(Red) PAG -11.59 [dBi]	(Red) PAG -11.75 [dBi]
V MRG -10.53 [dBi]	V MRG -10.51 [dBi]	V MRG -9.58 [dBi]
(Blue) PAG -13.87 [dBi]	(Blue) PAG -14.36 [dBi]	(Blue) PAG -13.38 [dBi]
Y Z面		
H MRG -6.05 [dBi]	H MRG -6.76 [dBi]	H MRG -7.62 [dBi]
(Red) PAG -9.84 [dBi]	(Red) PAG -10.69 [dBi]	(Red) PAG -11.45 [dBi]
V MRG -17.20 [dBi]	V MRG -15.00 [dBi]	V MRG -11.54 [dBi]
(Blue) PAG -20.14 [dBi]	(Blue) PAG -18.82 [dBi]	(Blue) PAG -15.06 [dBi]
X Y面		
H MRG -14.33 [dBi]	H MRG -15.04 [dBi]	H MRG -14.32 [dBi]
(Red) PAG -20.65 [dBi]	(Red) PAG -20.17 [dBi]	(Red) PAG -19.38 [dBi]
V MRG -7.13 [dBi]	V MRG -8.57 [dBi]	V MRG -9.75 [dBi]
(Blue) PAG -8.28 [dBi]	(Blue) PAG -9.84 [dBi]	(Blue) PAG -11.28 [dBi]

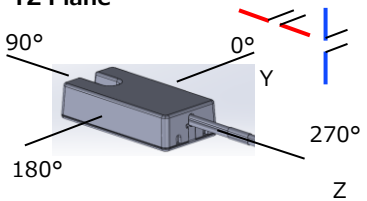
B11

1427.9 [MHz]	1437.9 [MHz]	1447.9 [MHz]
Efficiency -14.07 [dB]	Efficiency -13.92 [dB]	Efficiency -13.88 [dB]
Z X面		
H MRG -9.93 [dBi]	H MRG -9.78 [dBi]	H MRG -9.69 [dBi]
(Red) PAG -15.68 [dBi]	(Red) PAG -15.61 [dBi]	(Red) PAG -15.70 [dBi]
V MRG -14.72 [dBi]	V MRG -14.56 [dBi]	V MRG -14.52 [dBi]
(Blue) PAG -18.91 [dBi]	(Blue) PAG -18.80 [dBi]	(Blue) PAG -18.72 [dBi]
Y Z面		
H MRG -10.61 [dBi]	H MRG -10.78 [dBi]	H MRG -10.71 [dBi]
(Red) PAG -16.03 [dBi]	(Red) PAG -15.80 [dBi]	(Red) PAG -15.65 [dBi]
V MRG -14.89 [dBi]	V MRG -14.59 [dBi]	V MRG -14.23 [dBi]
(Blue) PAG -18.45 [dBi]	(Blue) PAG -18.26 [dBi]	(Blue) PAG -18.19 [dBi]
X Y面		
H MRG -18.69 [dBi]	H MRG -18.66 [dBi]	H MRG -18.12 [dBi]
(Red) PAG -22.95 [dBi]	(Red) PAG -22.61 [dBi]	(Red) PAG -22.45 [dBi]
V MRG -17.46 [dBi]	V MRG -17.85 [dBi]	V MRG -18.91 [dBi]
(Blue) PAG -20.14 [dBi]	(Blue) PAG -20.55 [dBi]	(Blue) PAG -21.20 [dBi]

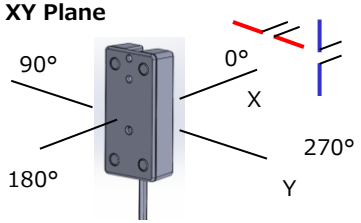
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1108

B21

1447.9 [MHz]	1455.4 [MHz]	1462.9 [MHz]
Efficiency -13.88 [dB]	Efficiency -13.93 [dB]	Efficiency -13.87 [dB]
Z X面		
H MRG -9.69 [dBi]	H MRG -9.95 [dBi]	H MRG -10.46 [dBi]
(Red) PAG -15.70 [dBi]	(Red) PAG -15.93 [dBi]	(Red) PAG -16.11 [dBi]
V MRG -14.52 [dBi]	V MRG -14.68 [dBi]	V MRG -14.67 [dBi]
(Blue) PAG -18.72 [dBi]	(Blue) PAG -18.76 [dBi]	(Blue) PAG -18.73 [dBi]
Y Z面		
H MRG -10.71 [dBi]	H MRG -10.38 [dBi]	H MRG -10.06 [dBi]
(Red) PAG -15.65 [dBi]	(Red) PAG -15.57 [dBi]	(Red) PAG -15.28 [dBi]
V MRG -14.23 [dBi]	V MRG -14.03 [dBi]	V MRG -14.00 [dBi]
(Blue) PAG -18.19 [dBi]	(Blue) PAG -18.22 [dBi]	(Blue) PAG -18.14 [dBi]
X Y面		
H MRG -18.12 [dBi]	H MRG -18.27 [dBi]	H MRG -18.05 [dBi]
(Red) PAG -22.45 [dBi]	(Red) PAG -22.74 [dBi]	(Red) PAG -22.18 [dBi]
V MRG -18.91 [dBi]	V MRG -18.64 [dBi]	V MRG -17.95 [dBi]
(Blue) PAG -21.20 [dBi]	(Blue) PAG -21.93 [dBi]	(Blue) PAG -21.92 [dBi]

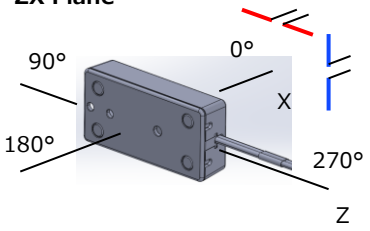
B3

1710 [MHz]	1747.5 [MHz]	1785 [MHz]
Efficiency -9.36 [dB]	Efficiency -8.21 [dB]	Efficiency -7.44 [dB]
Z X面		
H MRG -7.82 [dBi]	H MRG -6.60 [dBi]	H MRG -6.28 [dBi]
(Red) PAG -11.22 [dBi]	(Red) PAG -10.24 [dBi]	(Red) PAG -9.93 [dBi]
V MRG -8.50 [dBi]	V MRG -8.40 [dBi]	V MRG -7.80 [dBi]
(Blue) PAG -13.33 [dBi]	(Blue) PAG -12.41 [dBi]	(Blue) PAG -10.91 [dBi]
Y Z面		
H MRG -5.82 [dBi]	H MRG -4.60 [dBi]	H MRG -3.04 [dBi]
(Red) PAG -10.68 [dBi]	(Red) PAG -9.16 [dBi]	(Red) PAG -7.96 [dBi]
V MRG -14.46 [dBi]	V MRG -15.06 [dBi]	V MRG -15.59 [dBi]
(Blue) PAG -18.22 [dBi]	(Blue) PAG -19.41 [dBi]	(Blue) PAG -20.10 [dBi]
X Y面		
H MRG -10.39 [dBi]	H MRG -10.47 [dBi]	H MRG -9.15 [dBi]
(Red) PAG -15.32 [dBi]	(Red) PAG -14.11 [dBi]	(Red) PAG -12.24 [dBi]
V MRG -8.42 [dBi]	V MRG -7.54 [dBi]	V MRG -6.12 [dBi]
(Blue) PAG -10.05 [dBi]	(Blue) PAG -8.36 [dBi]	(Blue) PAG -7.18 [dBi]

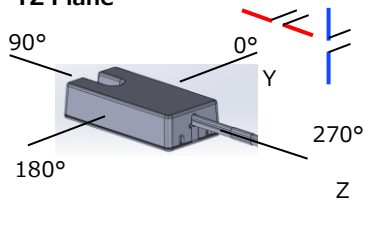
B9

1749.9 [MHz]	1767.4 [MHz]	1784.9 [MHz]
Efficiency -8.14 [dB]	Efficiency -7.74 [dB]	Efficiency -7.45 [dB]
Z X面		
H MRG -6.55 [dBi]	H MRG -6.16 [dBi]	H MRG -6.29 [dBi]
(Red) PAG -10.20 [dBi]	(Red) PAG -9.94 [dBi]	(Red) PAG -9.94 [dBi]
V MRG -8.39 [dBi]	V MRG -8.49 [dBi]	V MRG -7.83 [dBi]
(Blue) PAG -12.29 [dBi]	(Blue) PAG -11.86 [dBi]	(Blue) PAG -10.92 [dBi]
Y Z面		
H MRG -4.47 [dBi]	H MRG -3.69 [dBi]	H MRG -3.06 [dBi]
(Red) PAG -9.07 [dBi]	(Red) PAG -8.47 [dBi]	(Red) PAG -7.97 [dBi]
V MRG -15.14 [dBi]	V MRG -15.85 [dBi]	V MRG -15.55 [dBi]
(Blue) PAG -19.48 [dBi]	(Blue) PAG -19.79 [dBi]	(Blue) PAG -20.10 [dBi]
X Y面		
H MRG -10.36 [dBi]	H MRG -9.85 [dBi]	H MRG -9.16 [dBi]
(Red) PAG -13.90 [dBi]	(Red) PAG -13.09 [dBi]	(Red) PAG -12.25 [dBi]
V MRG -7.49 [dBi]	V MRG -6.77 [dBi]	V MRG -6.12 [dBi]
(Blue) PAG -8.29 [dBi]	(Blue) PAG -7.65 [dBi]	(Blue) PAG -7.19 [dBi]

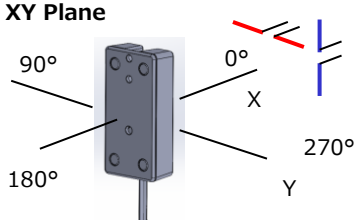
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

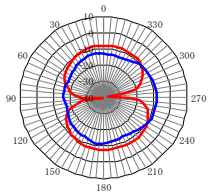
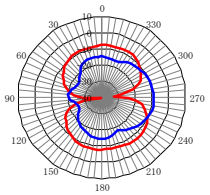
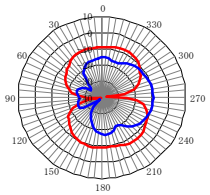
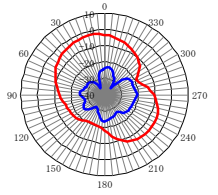
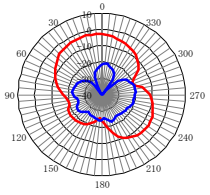
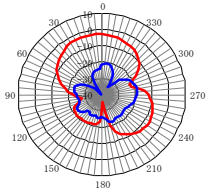
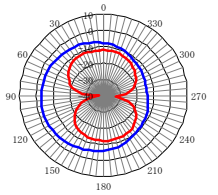
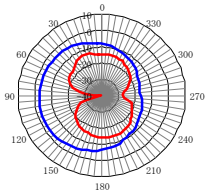
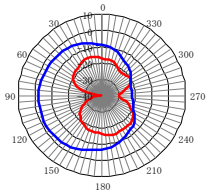
MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

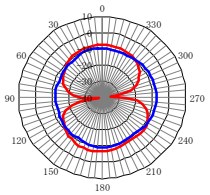
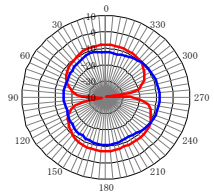
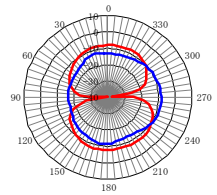
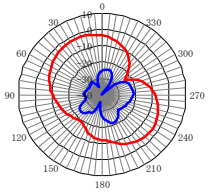
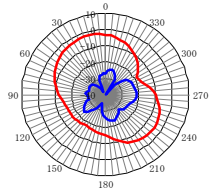
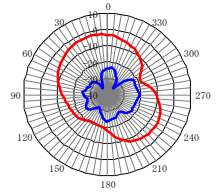
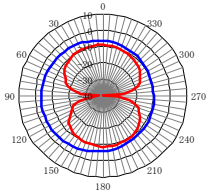
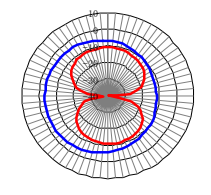
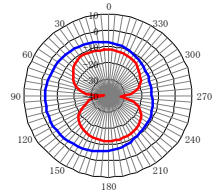
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1108

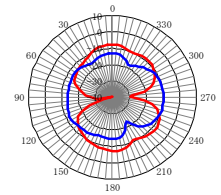
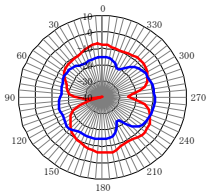
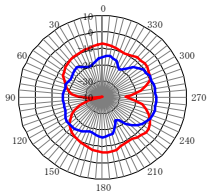
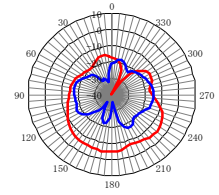
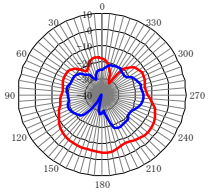
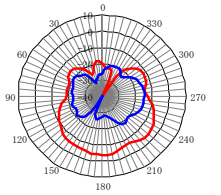
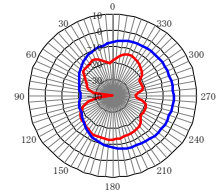
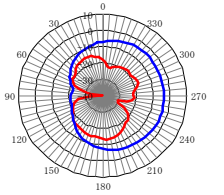
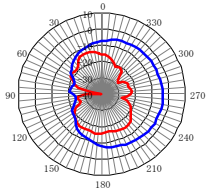
B1

1920 [MHz]	1950 [MHz]	1980 [MHz]
Efficiency -7.32 [dB]	Efficiency -7.66 [dB]	Efficiency -8.46 [dB]
Z X面		
H MRG -7.55 [dBi]	H MRG -6.94 [dBi]	H MRG -7.04 [dBi]
(Red) PAG -10.26 [dBi]	(Red) PAG -10.08 [dBi]	(Red) PAG -10.71 [dBi]
V MRG -8.21 [dBi]	V MRG -8.93 [dBi]	V MRG -9.36 [dBi]
(Blue) PAG -12.00 [dBi]	(Blue) PAG -14.01 [dBi]	(Blue) PAG -15.16 [dBi]
		
Y Z面		
H MRG -2.33 [dBi]	H MRG -2.42 [dBi]	H MRG -2.55 [dBi]
(Red) PAG -7.70 [dBi]	(Red) PAG -7.97 [dBi]	(Red) PAG -8.40 [dBi]
V MRG -20.66 [dBi]	V MRG -19.49 [dBi]	V MRG -18.67 [dBi]
(Blue) PAG -25.07 [dBi]	(Blue) PAG -23.52 [dBi]	(Blue) PAG -23.51 [dBi]
		
X Y面		
H MRG -11.32 [dBi]	H MRG -12.65 [dBi]	H MRG -14.75 [dBi]
(Red) PAG -14.70 [dBi]	(Red) PAG -16.79 [dBi]	(Red) PAG -18.87 [dBi]
V MRG -2.66 [dBi]	V MRG -2.37 [dBi]	V MRG -2.02 [dBi]
(Blue) PAG -6.15 [dBi]	(Blue) PAG -6.13 [dBi]	(Blue) PAG -6.06 [dBi]
		

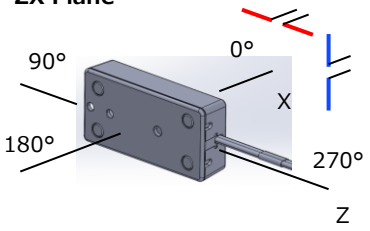
B39

1880 [MHz]	1900 [MHz]	1920 [MHz]
Efficiency -6.56 [dB]	Efficiency -6.98 [dB]	Efficiency -7.32 [dB]
Z X面		
H MRG -6.37 [dBi]	H MRG -6.84 [dBi]	H MRG -7.55 [dBi]
(Red) PAG -9.84 [dBi]	(Red) PAG -10.07 [dBi]	(Red) PAG -10.26 [dBi]
V MRG -7.39 [dBi]	V MRG -8.01 [dBi]	V MRG -8.21 [dBi]
(Blue) PAG -9.89 [dBi]	(Blue) PAG -11.34 [dBi]	(Blue) PAG -12.00 [dBi]
		
Y Z面		
H MRG -2.12 [dBi]	H MRG -2.06 [dBi]	H MRG -2.33 [dBi]
(Red) PAG -6.80 [dBi]	(Red) PAG -7.22 [dBi]	(Red) PAG -7.70 [dBi]
V MRG -21.12 [dBi]	V MRG -20.98 [dBi]	V MRG -20.66 [dBi]
(Blue) PAG -25.59 [dBi]	(Blue) PAG -25.90 [dBi]	(Blue) PAG -25.07 [dBi]
		
X Y面		
H MRG -8.64 [dBi]	H MRG -10.78 [dBi]	H MRG -11.32 [dBi]
(Red) PAG -11.76 [dBi]	(Red) PAG -13.70 [dBi]	(Red) PAG -14.70 [dBi]
V MRG -3.38 [dBi]	V MRG -2.88 [dBi]	V MRG -2.66 [dBi]
(Blue) PAG -5.89 [dBi]	(Blue) PAG -5.85 [dBi]	(Blue) PAG -6.15 [dBi]
		

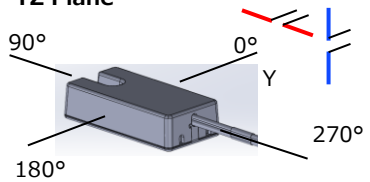
B41

2496 [MHz]	2593 [MHz]	2690 [MHz]
Efficiency -8.39 [dB]	Efficiency -7.99 [dB]	Efficiency -8.39 [dB]
Z X面		
H MRG -6.86 [dBi]	H MRG -5.83 [dBi]	H MRG -5.93 [dBi]
(Red) PAG -10.66 [dBi]	(Red) PAG -9.90 [dBi]	(Red) PAG -9.85 [dBi]
V MRG -9.56 [dBi]	V MRG -8.91 [dBi]	V MRG -7.98 [dBi]
(Blue) PAG -13.09 [dBi]	(Blue) PAG -13.20 [dBi]	(Blue) PAG -13.51 [dBi]
		
Y Z面		
H MRG -4.49 [dBi]	H MRG -4.02 [dBi]	H MRG -3.73 [dBi]
(Red) PAG -9.54 [dBi]	(Red) PAG -8.90 [dBi]	(Red) PAG -9.00 [dBi]
V MRG -14.99 [dBi]	V MRG -15.06 [dBi]	V MRG -14.52 [dBi]
(Blue) PAG -19.41 [dBi]	(Blue) PAG -20.00 [dBi]	(Blue) PAG -20.17 [dBi]
		
X Y面		
H MRG -13.02 [dBi]	H MRG -12.88 [dBi]	H MRG -13.20 [dBi]
(Red) PAG -16.76 [dBi]	(Red) PAG -17.76 [dBi]	(Red) PAG -17.99 [dBi]
V MRG -3.79 [dBi]	V MRG -3.32 [dBi]	V MRG -3.50 [dBi]
(Blue) PAG -7.33 [dBi]	(Blue) PAG -6.79 [dBi]	(Blue) PAG -7.20 [dBi]
		

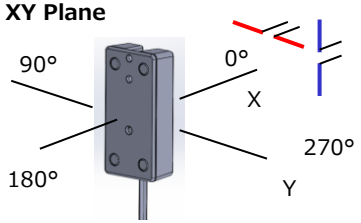
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

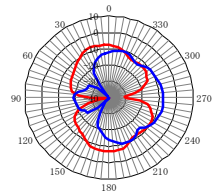
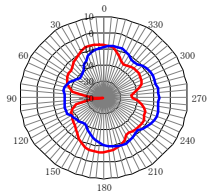
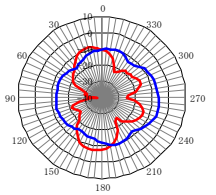
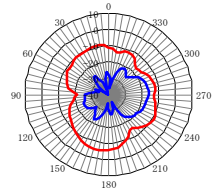
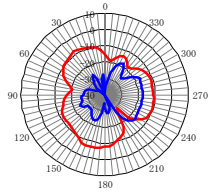
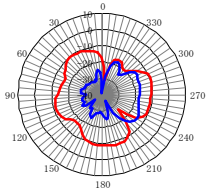
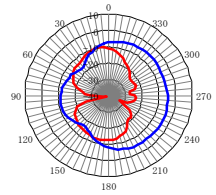
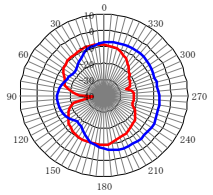
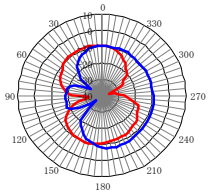
MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

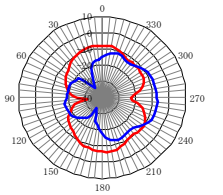
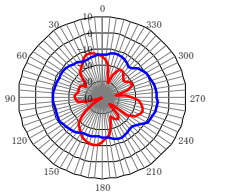
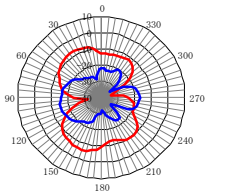
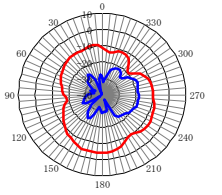
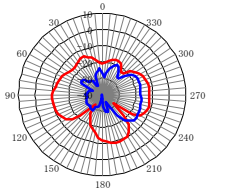
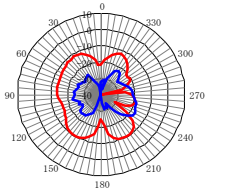
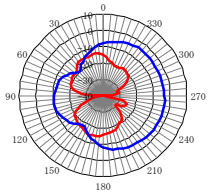
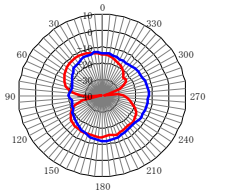
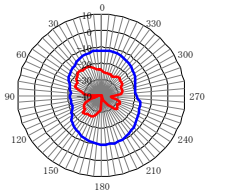
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1108

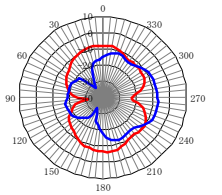
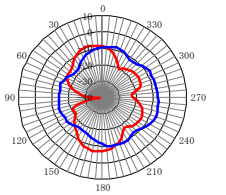
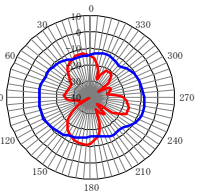
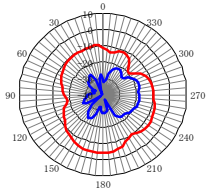
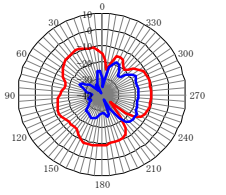
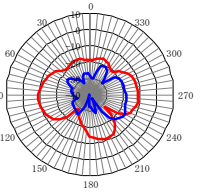
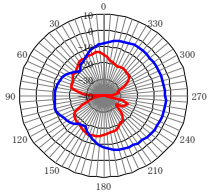
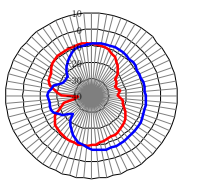
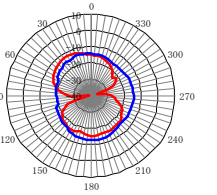
B42

3400 [MHz]	3500 [MHz]	3600 [MHz]
Efficiency -9.01 [dBi]	Efficiency -8.94 [dBi]	Efficiency -10.15 [dBi]
Z X面		
H MRG -6.65 [dBi]	H MRG -6.05 [dBi]	H MRG -7.04 [dBi]
(Red) PAG -11.13 [dBi]	(Red) PAG -11.40 [dBi]	(Red) PAG -13.50 [dBi]
V MRG -7.47 [dBi]	V MRG -6.57 [dBi]	V MRG -5.65 [dBi]
(Blue) PAG -12.56 [dBi]	(Blue) PAG -10.68 [dBi]	(Blue) PAG -10.45 [dBi]
		
Y Z面		
H MRG -5.31 [dBi]	H MRG -6.74 [dBi]	H MRG -7.82 [dBi]
(Red) PAG -10.47 [dBi]	(Red) PAG -11.32 [dBi]	(Red) PAG -12.10 [dBi]
V MRG -16.01 [dBi]	V MRG -16.52 [dBi]	V MRG -14.16 [dBi]
(Blue) PAG -22.45 [dBi]	(Blue) PAG -22.02 [dBi]	(Blue) PAG -21.01 [dBi]
		
X Y面		
H MRG -9.83 [dBi]	H MRG -8.13 [dBi]	H MRG -8.55 [dBi]
(Red) PAG -15.44 [dBi]	(Red) PAG -12.55 [dBi]	(Red) PAG -12.58 [dBi]
V MRG -4.04 [dBi]	V MRG -5.33 [dBi]	V MRG -7.34 [dBi]
(Blue) PAG -7.40 [dBi]	(Blue) PAG -8.43 [dBi]	(Blue) PAG -10.88 [dBi]
		

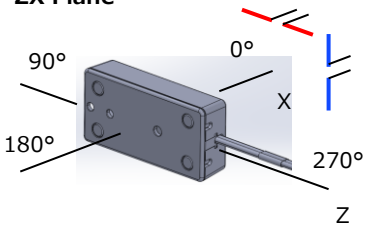
n77

3300 [MHz]	3750 [MHz]	4200 [MHz]
Efficiency -8.60 [dBi]	Efficiency -12.37 [dBi]	Efficiency -11.52 [dBi]
Z X面		
H MRG -6.30 [dBi]	H MRG -10.45 [dBi]	H MRG -5.85 [dBi]
(Red) PAG -10.87 [dBi]	(Red) PAG -17.50 [dBi]	(Red) PAG -11.00 [dBi]
V MRG -6.92 [dBi]	V MRG -6.97 [dBi]	V MRG -15.10 [dBi]
(Blue) PAG -12.73 [dBi]	(Blue) PAG -11.38 [dBi]	(Blue) PAG -20.41 [dBi]
		
Y Z面		
H MRG -4.02 [dBi]	H MRG -9.23 [dBi]	H MRG -9.97 [dBi]
(Red) PAG -9.06 [dBi]	(Red) PAG -13.61 [dBi]	(Red) PAG -14.18 [dBi]
V MRG -17.65 [dBi]	V MRG -15.29 [dBi]	V MRG -16.67 [dBi]
(Blue) PAG -23.60 [dBi]	(Blue) PAG -21.68 [dBi]	(Blue) PAG -24.21 [dBi]
		
X Y面		
H MRG -13.31 [dBi]	H MRG -11.50 [dBi]	H MRG -20.20 [dBi]
(Red) PAG -18.56 [dBi]	(Red) PAG -16.06 [dBi]	(Red) PAG -25.81 [dBi]
V MRG -2.88 [dBi]	V MRG -11.88 [dBi]	V MRG -9.50 [dBi]
(Blue) PAG -6.69 [dBi]	(Blue) PAG -14.60 [dBi]	(Blue) PAG -13.90 [dBi]
		

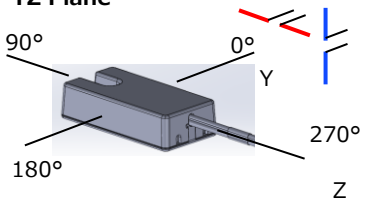
n78

3300 [MHz]	3550 [MHz]	3800 [MHz]
Efficiency -8.60 [dBi]	Efficiency -9.56 [dBi]	Efficiency -12.62 [dBi]
Z X面		
H MRG -6.30 [dBi]	H MRG -6.66 [dBi]	H MRG -10.74 [dBi]
(Red) PAG -10.87 [dBi]	(Red) PAG -12.51 [dBi]	(Red) PAG -17.90 [dBi]
V MRG -6.92 [dBi]	V MRG -6.34 [dBi]	V MRG -7.48 [dBi]
(Blue) PAG -12.73 [dBi]	(Blue) PAG -10.52 [dBi]	(Blue) PAG -11.10 [dBi]
		
Y Z面		
H MRG -4.02 [dBi]	H MRG -8.26 [dBi]	H MRG -9.08 [dBi]
(Red) PAG -9.06 [dBi]	(Red) PAG -11.85 [dBi]	(Red) PAG -13.91 [dBi]
V MRG -17.65 [dBi]	V MRG -15.75 [dBi]	V MRG -15.99 [dBi]
(Blue) PAG -23.60 [dBi]	(Blue) PAG -22.04 [dBi]	(Blue) PAG -22.87 [dBi]
		
X Y面		
H MRG -13.31 [dBi]	H MRG -8.37 [dBi]	H MRG -12.07 [dBi]
(Red) PAG -18.56 [dBi]	(Red) PAG -12.45 [dBi]	(Red) PAG -16.91 [dBi]
V MRG -2.88 [dBi]	V MRG -6.42 [dBi]	V MRG -12.56 [dBi]
(Blue) PAG -6.69 [dBi]	(Blue) PAG -9.79 [dBi]	(Blue) PAG -15.28 [dBi]
		

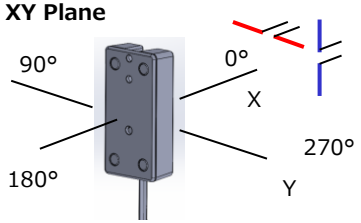
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

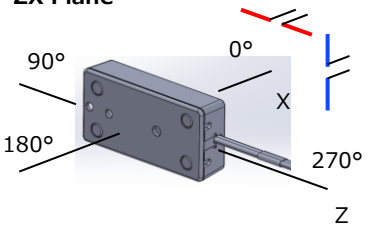
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

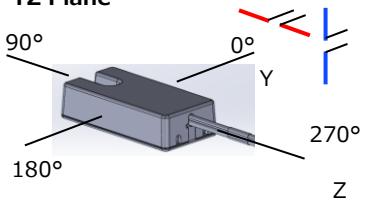
T18-077-1108

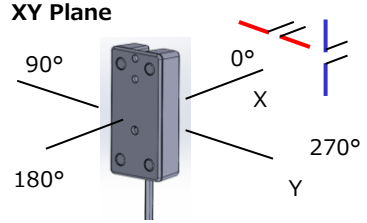
n79

Sub-GHz Band

	4400 [MHz]	4700 [MHz]	5000 [MHz]	845 [MHz]	860 [MHz]	865 [MHz]	868 [MHz]	869 [MHz]	890 [MHz]
Efficiency	-10.55 [dB]	-11.54 [dB]	-15.63 [dB]	-7.10 [dB]	-7.96 [dB]	-7.76 [dB]	-7.71 [dB]	-7.73 [dB]	-9.43 [dB]
ZX Plane									
Z X面									
H MRG	-4.77 [dBi]	-8.50 [dBi]	-12.85 [dBi]	-5.30 [dBi]	-5.50 [dBi]	-5.36 [dBi]	-5.42 [dBi]	-5.49 [dBi]	-7.28 [dBi]
(Red) PAG	-10.91 [dBi]	-13.75 [dBi]	-17.41 [dBi]	-9.81 [dBi]	-9.85 [dBi]	-9.77 [dBi]	-9.85 [dBi]	-9.90 [dBi]	-11.52 [dBi]
V MRG	-8.82 [dBi]	-8.66 [dBi]	-14.39 [dBi]	-8.20 [dBi]	-9.31 [dBi]	-9.13 [dBi]	-9.24 [dBi]	-9.25 [dBi]	-11.05 [dBi]
(Blue) PAG	-14.43 [dBi]	-12.32 [dBi]	-18.54 [dBi]	-10.55 [dBi]	-12.48 [dBi]	-11.98 [dBi]	-11.89 [dBi]	-11.93 [dBi]	-14.86 [dBi]
YZ Plane									
Y Z面									
H MRG	-8.29 [dBi]	-9.49 [dBi]	-10.81 [dBi]	-4.38 [dBi]	-6.25 [dBi]	-5.86 [dBi]	-5.79 [dBi]	-5.80 [dBi]	-6.50 [dBi]
(Red) PAG	-12.88 [dBi]	-12.63 [dBi]	-16.69 [dBi]	-8.56 [dBi]	-9.71 [dBi]	-9.48 [dBi]	-9.34 [dBi]	-9.31 [dBi]	-10.61 [dBi]
V MRG	-19.18 [dBi]	-20.51 [dBi]	-22.78 [dBi]	-14.52 [dBi]	-14.30 [dBi]	-14.72 [dBi]	-15.17 [dBi]	-15.35 [dBi]	-16.56 [dBi]
(Blue) PAG	-24.46 [dBi]	-27.43 [dBi]	-28.68 [dBi]	-20.73 [dBi]	-17.76 [dBi]	-17.67 [dBi]	-17.92 [dBi]	-18.06 [dBi]	-19.58 [dBi]
XY Plane									
X Y面									
H MRG	-19.48 [dBi]	-17.09 [dBi]	-18.92 [dBi]	-11.14 [dBi]	-10.73 [dBi]	-10.68 [dBi]	-10.90 [dBi]	-11.07 [dBi]	-16.26 [dBi]
(Red) PAG	-25.25 [dBi]	-22.43 [dBi]	-24.28 [dBi]	-14.08 [dBi]	-15.89 [dBi]	-16.10 [dBi]	-16.49 [dBi]	-16.70 [dBi]	-21.61 [dBi]
V MRG	-5.75 [dBi]	-8.64 [dBi]	-12.98 [dBi]	-5.71 [dBi]	-6.64 [dBi]	-6.66 [dBi]	-6.60 [dBi]	-6.58 [dBi]	-7.81 [dBi]
(Blue) PAG	-9.74 [dBi]	-13.74 [dBi]	-18.99 [dBi]	-6.52 [dBi]	-7.62 [dBi]	-7.71 [dBi]	-7.70 [dBi]	-7.72 [dBi]	-9.11 [dBi]







水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

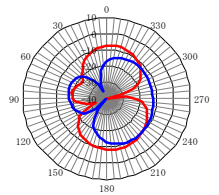
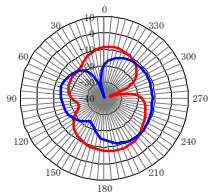
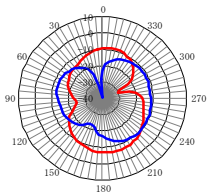
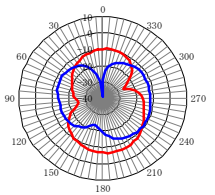
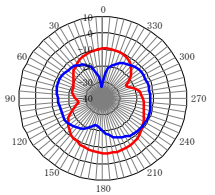
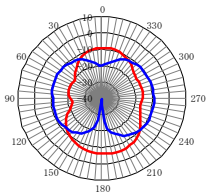
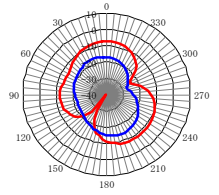
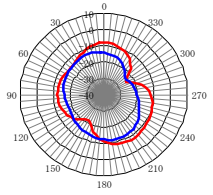
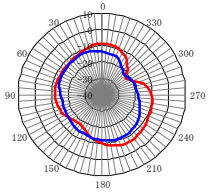
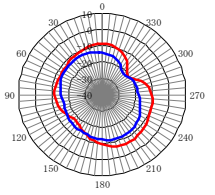
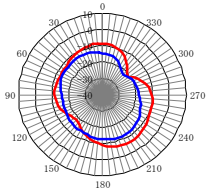
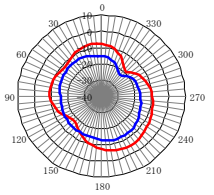
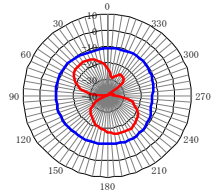
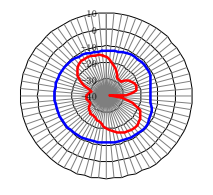
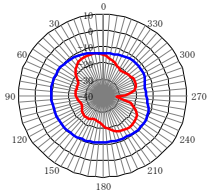
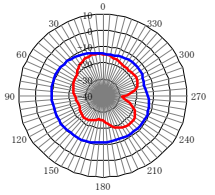
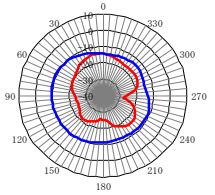
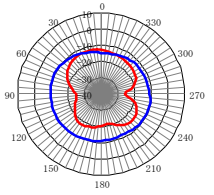
MRG = 最大利得 Maximum Absolute Gain

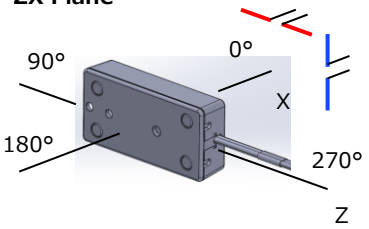
PAG = 平均利得 Pattern Average Gain

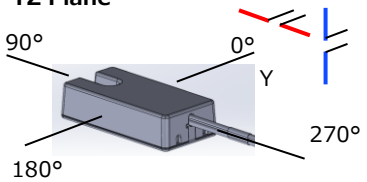
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

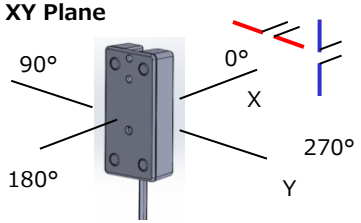
T18-077-1108

Sub-GHz Band

902 [MHz]	915 [MHz]	922 [MHz]	928 [MHz]	930 [MHz]	940 [MHz]
Efficiency -9.61 [dB]	Efficiency -9.43 [dB]	Efficiency -9.04 [dB]	Efficiency -9.09 [dB]	Efficiency -9.02 [dB]	Efficiency -8.21 [dB]
ZX Plane					
H MRG -7.34 [dBi]	H MRG -7.13 [dBi]	H MRG -6.39 [dBi]	H MRG -6.25 [dBi]	H MRG -6.14 [dBi]	H MRG -5.80 [dBi]
(Red) PAG -11.83 [dBi]	(Red) PAG -11.75 [dBi]	(Red) PAG -11.35 [dBi]	(Red) PAG -11.35 [dBi]	(Red) PAG -11.27 [dBi]	(Red) PAG -10.82 [dBi]
V MRG -10.18 [dBi]	V MRG -9.58 [dBi]	V MRG -9.85 [dBi]	V MRG -10.65 [dBi]	V MRG -10.66 [dBi]	V MRG -8.95 [dBi]
(Blue) PAG -14.25 [dBi]	(Blue) PAG -13.38 [dBi]	(Blue) PAG -13.38 [dBi]	(Blue) PAG -13.96 [dBi]	(Blue) PAG -13.86 [dBi]	(Blue) PAG -11.81 [dBi]
					
YZ Plane					
H MRG -7.05 [dBi]	H MRG -7.62 [dBi]	H MRG -6.66 [dBi]	H MRG -6.43 [dBi]	H MRG -6.32 [dBi]	H MRG -4.99 [dBi]
(Red) PAG -11.00 [dBi]	(Red) PAG -11.45 [dBi]	(Red) PAG -10.84 [dBi]	(Red) PAG -10.63 [dBi]	(Red) PAG -10.50 [dBi]	(Red) PAG -9.34 [dBi]
V MRG -14.15 [dBi]	V MRG -11.54 [dBi]	V MRG -11.06 [dBi]	V MRG -11.52 [dBi]	V MRG -11.67 [dBi]	V MRG -12.17 [dBi]
(Blue) PAG -18.26 [dBi]	(Blue) PAG -15.06 [dBi]	(Blue) PAG -14.16 [dBi]	(Blue) PAG -14.42 [dBi]	(Blue) PAG -14.52 [dBi]	(Blue) PAG -14.78 [dBi]
					
XY Plane					
H MRG -14.65 [dBi]	H MRG -14.32 [dBi]	H MRG -13.70 [dBi]	H MRG -14.16 [dBi]	H MRG -14.18 [dBi]	H MRG -12.17 [dBi]
(Red) PAG -20.04 [dBi]	(Red) PAG -19.38 [dBi]	(Red) PAG -18.69 [dBi]	(Red) PAG -18.79 [dBi]	(Red) PAG -18.67 [dBi]	(Red) PAG -16.56 [dBi]
V MRG -9.16 [dBi]	V MRG -9.75 [dBi]	V MRG -9.37 [dBi]	V MRG -9.19 [dBi]	V MRG -9.06 [dBi]	V MRG -9.33 [dBi]
(Blue) PAG -10.47 [dBi]	(Blue) PAG -11.28 [dBi]	(Blue) PAG -11.19 [dBi]	(Blue) PAG -11.33 [dBi]	(Blue) PAG -11.30 [dBi]	(Blue) PAG -11.08 [dBi]
					







水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

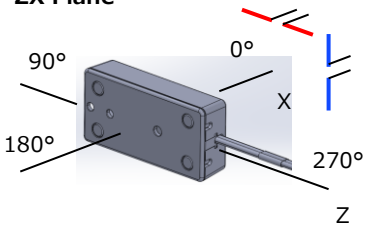
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1108

2.4GHz Band (Wi-Fi , etc.)

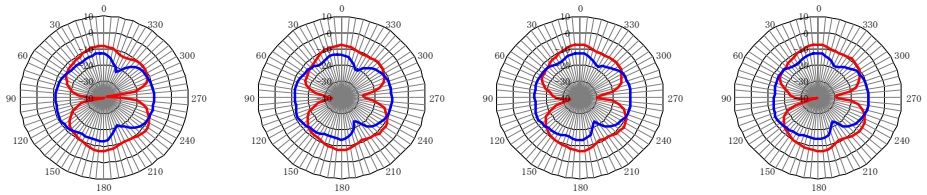
2400 [MHz]	2442 [MHz]	2483.5 [MHz]	2500 [MHz]
Efficiency -8.43 [dB]	Efficiency -8.51 [dB]	Efficiency -8.42 [dB]	Efficiency -8.40 [dB]

ZX Plane

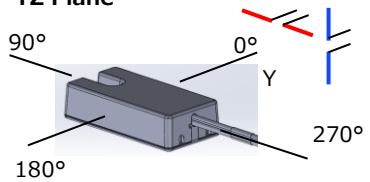


Z X面

	2400 [MHz]	2442 [MHz]	2483.5 [MHz]	2500 [MHz]
H	MRG -6.98 [dBi]	MRG -7.60 [dBi]	MRG -6.98 [dBi]	MRG -6.92 [dBi]
(Red)	PAG -11.06 [dBi]	PAG -11.20 [dBi]	PAG -10.80 [dBi]	PAG -10.68 [dBi]
V	MRG -10.12 [dBi]	MRG -10.03 [dBi]	MRG -9.35 [dBi]	MRG -9.68 [dBi]
(Blue)	PAG -12.74 [dBi]	PAG -13.12 [dBi]	PAG -12.85 [dBi]	PAG -13.17 [dBi]

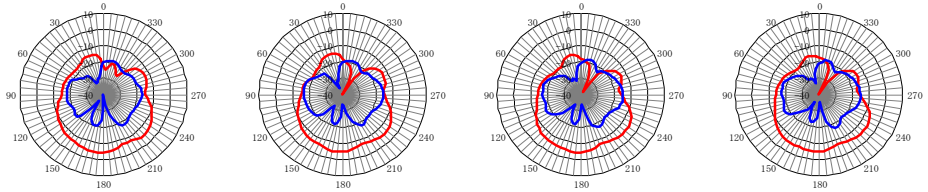


YZ Plane

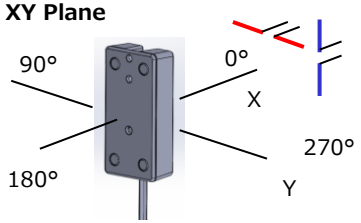


Y Z面

	2400 [MHz]	2442 [MHz]	2483.5 [MHz]	2500 [MHz]
H	MRG -4.33 [dBi]	MRG -4.52 [dBi]	MRG -4.30 [dBi]	MRG -4.57 [dBi]
(Red)	PAG -9.52 [dBi]	PAG -9.74 [dBi]	PAG -9.50 [dBi]	PAG -9.57 [dBi]
V	MRG -16.80 [dBi]	MRG -15.54 [dBi]	MRG -14.77 [dBi]	MRG -15.10 [dBi]
(Blue)	PAG -20.19 [dBi]	PAG -19.48 [dBi]	PAG -19.24 [dBi]	PAG -19.53 [dBi]

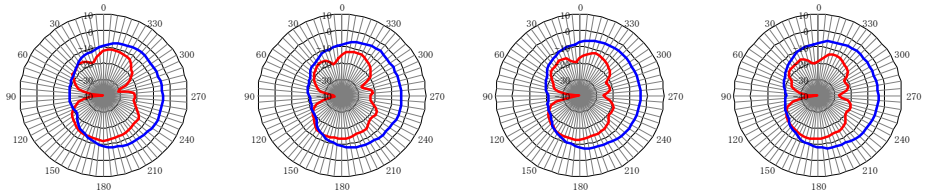


XY Plane



X Y面

	2400 [MHz]	2442 [MHz]	2483.5 [MHz]	2500 [MHz]
H	MRG -11.17 [dBi]	MRG -12.13 [dBi]	MRG -12.51 [dBi]	MRG -13.06 [dBi]
(Red)	PAG -15.58 [dBi]	PAG -16.56 [dBi]	PAG -16.44 [dBi]	PAG -16.88 [dBi]
V	MRG -4.44 [dBi]	MRG -4.27 [dBi]	MRG -3.75 [dBi]	MRG -3.83 [dBi]
(Blue)	PAG -8.20 [dBi]	PAG -7.82 [dBi]	PAG -7.28 [dBi]	PAG -7.40 [dBi]



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

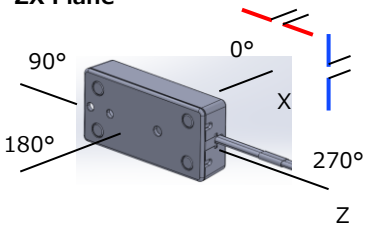
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

T18-077-1108

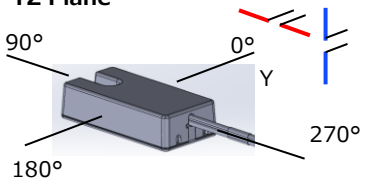
5GHz Band (Wi-Fi , etc.)

4900 [MHz]	4950 [MHz]	5000 [MHz]	5030 [MHz]	5060.5 [MHz]	5091 [MHz]	5150 [MHz]	5200 [MHz]
Efficiency -14.54 [dB]	Efficiency -15.22 [dB]	Efficiency -15.63 [dB]	Efficiency -15.58 [dB]	Efficiency -15.82 [dB]	Efficiency -15.89 [dB]	Efficiency -16.01 [dB]	Efficiency -15.96 [dB]
Z X面							
H MRG -11.45 [dBi]	H MRG -12.37 [dBi]	H MRG -12.85 [dBi]	H MRG -12.93 [dBi]	H MRG -13.18 [dBi]	H MRG -13.41 [dBi]	H MRG -13.82 [dBi]	H MRG -13.98 [dBi]
(Red) PAG -16.43 [dBi]	(Red) PAG -17.07 [dBi]	(Red) PAG -17.41 [dBi]	(Red) PAG -17.46 [dBi]	(Red) PAG -17.68 [dBi]	(Red) PAG -17.76 [dBi]	(Red) PAG -18.11 [dBi]	(Red) PAG -18.08 [dBi]
V MRG -13.01 [dBi]	V MRG -14.11 [dBi]	V MRG -14.39 [dBi]	V MRG -14.57 [dBi]	V MRG -15.12 [dBi]	V MRG -15.84 [dBi]	V MRG -15.92 [dBi]	V MRG -16.20 [dBi]
(Blue) PAG -16.87 [dBi]	(Blue) PAG -18.03 [dBi]	(Blue) PAG -18.54 [dBi]	(Blue) PAG -18.81 [dBi]	(Blue) PAG -19.04 [dBi]	(Blue) PAG -19.48 [dBi]	(Blue) PAG -19.64 [dBi]	(Blue) PAG -19.80 [dBi]
Y Z面							
H MRG -10.78 [dBi]	H MRG -11.10 [dBi]	H MRG -10.81 [dBi]	H MRG -10.73 [dBi]	H MRG -10.95 [dBi]	H MRG -11.07 [dBi]	H MRG -10.82 [dBi]	H MRG -10.98 [dBi]
(Red) PAG -16.03 [dBi]	(Red) PAG -16.56 [dBi]	(Red) PAG -16.69 [dBi]	(Red) PAG -16.65 [dBi]	(Red) PAG -16.63 [dBi]	(Red) PAG -16.60 [dBi]	(Red) PAG -16.49 [dBi]	(Red) PAG -16.17 [dBi]
V MRG -22.18 [dBi]	V MRG -22.43 [dBi]	V MRG -22.78 [dBi]	V MRG -21.80 [dBi]	V MRG -20.88 [dBi]	V MRG -21.02 [dBi]	V MRG -21.02 [dBi]	V MRG -20.40 [dBi]
(Blue) PAG -28.87 [dBi]	(Blue) PAG -28.72 [dBi]	(Blue) PAG -28.68 [dBi]	(Blue) PAG -28.03 [dBi]	(Blue) PAG -27.42 [dBi]	(Blue) PAG -27.16 [dBi]	(Blue) PAG -27.03 [dBi]	(Blue) PAG -26.48 [dBi]
X Y面							
H MRG -19.68 [dBi]	H MRG -19.54 [dBi]	H MRG -18.92 [dBi]	H MRG -19.45 [dBi]	H MRG -19.27 [dBi]	H MRG -18.93 [dBi]	H MRG -18.51 [dBi]	H MRG -18.39 [dBi]
(Red) PAG -24.25 [dBi]	(Red) PAG -24.59 [dBi]	(Red) PAG -24.28 [dBi]	(Red) PAG -24.29 [dBi]	(Red) PAG -24.59 [dBi]	(Red) PAG -24.57 [dBi]	(Red) PAG -24.13 [dBi]	(Red) PAG -24.02 [dBi]
V MRG -11.58 [dBi]	V MRG -12.52 [dBi]	V MRG -12.98 [dBi]	V MRG -12.85 [dBi]	V MRG -13.11 [dBi]	V MRG -13.28 [dBi]	V MRG -14.09 [dBi]	V MRG -14.17 [dBi]
(Blue) PAG -17.49 [dBi]	(Blue) PAG -18.49 [dBi]	(Blue) PAG -18.99 [dBi]	(Blue) PAG -19.00 [dBi]	(Blue) PAG -19.36 [dBi]	(Blue) PAG -19.63 [dBi]	(Blue) PAG -20.50 [dBi]	(Blue) PAG -20.61 [dBi]

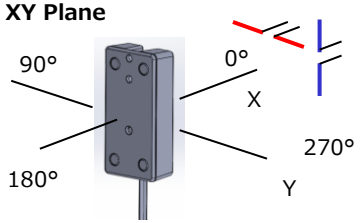
ZX Plane



YZ Plane



XY Plane



水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

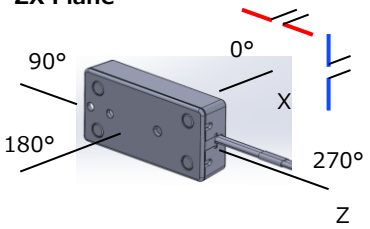
PAG = 平均利得 Pattern Average Gain

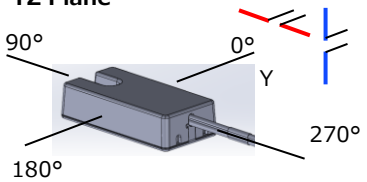
4.利得･指向性特性 Gain and Radiation Pattern Characteristics

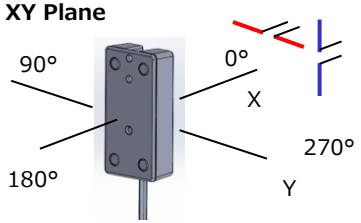
T18-077-1108

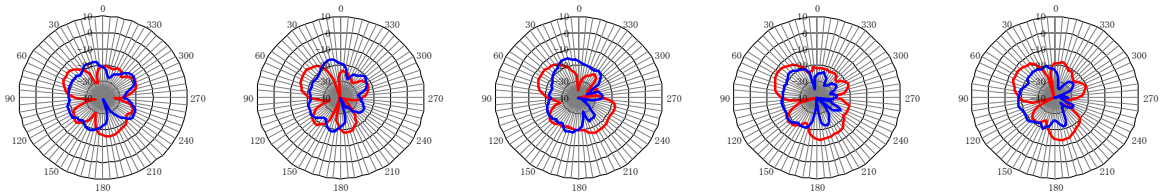
5GHz Band (Wi-Fi , etc.)

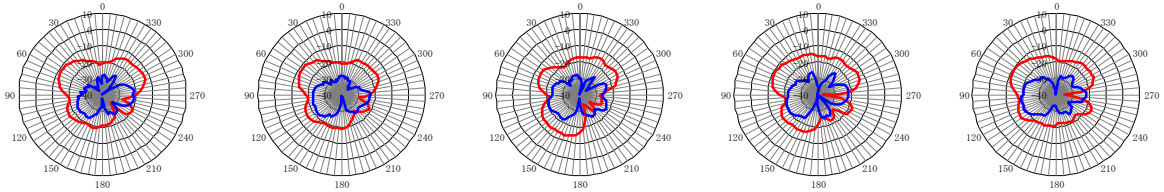
	5350 [MHz]	5500 [MHz]	5650 [MHz]	5750 [MHz]	5850 [MHz]
	Efficiency -16.77 [dB]	Efficiency -17.60 [dB]	Efficiency -16.57 [dB]	Efficiency -16.11 [dB]	Efficiency -16.50 [dB]
ZX Plane					
	H MRG -14.35 [dBi]	H MRG -13.23 [dBi]	H MRG -13.37 [dBi]	H MRG -11.88 [dBi]	H MRG -12.20 [dBi]
	(Red) PAG -19.40 [dBi]	(Red) PAG -20.33 [dBi]	(Red) PAG -18.91 [dBi]	(Red) PAG -17.69 [dBi]	(Red) PAG -18.16 [dBi]
	V MRG -16.86 [dBi]	V MRG -15.55 [dBi]	V MRG -14.90 [dBi]	V MRG -17.59 [dBi]	V MRG -17.20 [dBi]
	(Blue) PAG -20.36 [dBi]	(Blue) PAG -21.50 [dBi]	(Blue) PAG -20.71 [dBi]	(Blue) PAG -22.30 [dBi]	(Blue) PAG -22.28 [dBi]
YZ Plane					
	H MRG -11.35 [dBi]	H MRG -11.64 [dBi]	H MRG -13.13 [dBi]	H MRG -10.88 [dBi]	H MRG -10.47 [dBi]
	(Red) PAG -16.49 [dBi]	(Red) PAG -17.28 [dBi]	(Red) PAG -16.73 [dBi]	(Red) PAG -15.68 [dBi]	(Red) PAG -16.16 [dBi]
	V MRG -20.61 [dBi]	V MRG -21.51 [dBi]	V MRG -20.04 [dBi]	V MRG -19.25 [dBi]	V MRG -18.59 [dBi]
	(Blue) PAG -26.12 [dBi]	(Blue) PAG -25.97 [dBi]	(Blue) PAG -25.11 [dBi]	(Blue) PAG -24.69 [dBi]	(Blue) PAG -24.38 [dBi]
XY Plane					
	H MRG -18.37 [dBi]	H MRG -16.28 [dBi]	H MRG -14.89 [dBi]	H MRG -21.62 [dBi]	H MRG -20.76 [dBi]
	(Red) PAG -23.64 [dBi]	(Red) PAG -20.94 [dBi]	(Red) PAG -19.45 [dBi]	(Red) PAG -25.93 [dBi]	(Red) PAG -26.05 [dBi]
	V MRG -15.06 [dBi]	V MRG -19.40 [dBi]	V MRG -16.93 [dBi]	V MRG -14.68 [dBi]	V MRG -14.51 [dBi]
	(Blue) PAG -21.42 [dBi]	(Blue) PAG -23.12 [dBi]	(Blue) PAG -20.64 [dBi]	(Blue) PAG -19.88 [dBi]	(Blue) PAG -20.02 [dBi]

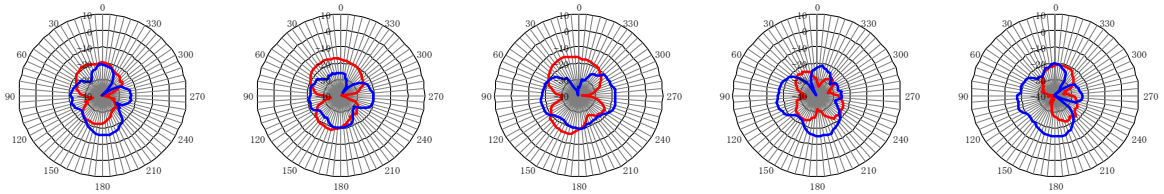












水平偏波 Horizontal Polarized Wave

垂直偏波 Vertical Polarized Wave

MRG = 最大利得 Maximum Absolute Gain

PAG = 平均利得 Pattern Average Gain

5.最大利得･放射効率 Maximum Absolute Gain and Efficiency

T18-077-1107

Frequency(MHz)	600	617	630	634.5	652	660	663	680.5	698	699	703	704	707.5	710	716
Maximum Absolute Gain(dBi)	-11.28	-14.98	-18.25	-18.06	-17.17	-16.34	-16.55	-13.61	-15.19	-15.27	-15.30	-15.32	-15.24	-15.34	-14.35
Efficiency(dB)	-14.04	-18.35	-20.09	-20.57	-20.02	-18.30	-18.48	-16.92	-18.56	-18.69	-19.02	-19.05	-19.30	-19.38	-18.33

Frequency(MHz)	725.5	729	734	737.5	740	746	748	751	756	758	763	768	777	780.5	782
Maximum Absolute Gain(dBi)	-12.91	-12.55	-12.26	-11.89	-11.44	-10.61	-10.32	-9.85	-9.17	-8.85	-8.36	-8.15	-7.86	-7.81	-7.77
Efficiency(dB)	-16.96	-16.55	-15.90	-15.24	-14.67	-13.84	-13.56	-13.14	-12.66	-12.45	-11.95	-11.56	-10.84	-10.58	-10.43

Frequency(MHz)	787	788	791	793	798	803	806	814	815	821	822.5	824	830	831.5	832
Maximum Absolute Gain(dBi)	-7.58	-7.54	-7.43	-7.43	-6.94	-6.13	-5.75	-4.76	-4.69	-4.40	-4.33	-4.22	-4.07	-4.07	-4.05
Efficiency(dB)	-9.78	-9.65	-9.19	-8.95	-8.62	-8.02	-7.71	-6.80	-6.74	-6.50	-6.46	-6.40	-6.40	-6.41	-6.40

Frequency(MHz)	836.5	837.5	845	847	849	859	860	862	865	867.5	868	869	875	876.5	880
Maximum Absolute Gain(dBi)	-3.83	-3.81	-4.38	-4.66	-4.99	-5.57	-5.50	-5.38	-5.36	-5.41	-5.42	-5.49	-6.17	-6.07	-6.05
Efficiency(dB)	-6.29	-6.33	-7.10	-7.38	-7.63	-8.02	-7.96	-7.86	-7.76	-7.71	-7.71	-7.73	-8.16	-8.25	-8.73

Frequency(MHz)	881.5	882.5	890	894	897.5	900	902	915	922	925	928	930	940	942.5	960
Maximum Absolute Gain(dBi)	-6.04	-6.04	-6.50	-6.63	-6.76	-6.55	-7.05	-7.13	-6.39	-6.29	-6.25	-6.14	-4.99	-4.61	-4.19
Efficiency(dB)	-8.86	-8.93	-9.43	-9.42	-9.44	-9.26	-9.61	-9.43	-9.04	-9.06	-9.09	-9.02	-8.21	-8.03	-7.93

Frequency(MHz)	1176.5	1227.6	1246.0	1278.8	1427.9	1437.9	1440.0	1447.9	1455.4	1462.9	1475.9	1485.9	1495.9	1503.4	1510.9
Maximum Absolute Gain(dBi)	-12.19	-20.00	-17.63	-14.26	-9.93	-9.78	-9.71	-9.69	-9.95	-10.06	-9.37	-8.72	-8.59	-8.63	-8.72
Efficiency(dB)	-17.12	-25.22	-22.40	-18.75	-14.07	-13.92	-14.04	-13.88	-13.93	-13.87	-13.83	-13.38	-13.39	-13.34	-13.21

Frequency(MHz)	1575.42	1602	1710	1732.5	1740	1745	1747.5	1749.9	1755	1767.4	1780	1784.9	1785	1805	1842.5
Maximum Absolute Gain(dBi)	-7.44	-7.71	-5.82	-5.15	-4.59	-4.62	-4.60	-4.47	-4.23	-3.69	-3.20	-3.06	-3.04	-2.57	-2.90
Efficiency(dB)	-12.81	-12.73	-9.36	-8.56	-7.96	-8.20	-8.21	-8.14	-7.98	-7.74	-7.52	-7.45	-7.44	-7.05	-6.69

5.最大利得･放射効率 Maximum Absolute Gain and Efficiency

T18-077-1107

Frequency(MHz)	1844.9	1850	1862.4	1879.9	1880	1882.5	1900	1910	1915	1920	1930	1950	1960	1962.5	1980
Maximum Absolute Gain(dBi)	-2.89	-2.85	-2.73	-2.12	-2.12	-2.00	-2.06	-2.26	-2.38	-2.33	-2.33	-2.37	-2.20	-2.22	-2.02
Efficiency(dB)	-6.69	-6.68	-6.74	-6.56	-6.56	-6.55	-6.98	-7.12	-7.26	-7.32	-7.57	-7.66	-7.95	-8.04	-8.46

Frequency(MHz)	1990	1995	2010	2025	2110	2132.5	2140	2155	2170	2200	2300	2305	2310	2315	2350
Maximum Absolute Gain(dBi)	-2.21	-2.33	-2.38	-2.31	-3.99	-4.82	-4.83	-5.03	-5.53	-6.15	-4.47	-4.48	-4.59	-4.52	-4.28
Efficiency(dB)	-8.72	-8.77	-8.54	-8.52	-8.75	-8.86	-8.97	-9.10	-9.33	-9.40	-8.65	-8.65	-8.77	-8.74	-8.53

Frequency(MHz)	2355	2360	2400	2442	2450	2483.5	2496	2500	2535	2570	2593	2595	2600	2620	2655
Maximum Absolute Gain(dBi)	-4.40	-4.46	-4.33	-4.27	-3.20	-3.75	-3.79	-3.83	-3.92	-3.72	-3.32	-3.27	-2.95	-3.25	-3.49
Efficiency(dB)	-8.64	-8.69	-8.43	-8.51	-7.97	-8.42	-8.39	-8.40	-8.39	-8.06	-7.99	-7.97	-7.75	-8.17	-8.14

Frequency(MHz)	2690	2917.5	3300	3400	3500	3550	3600	3625	3700	3750	3800	4200	4400	4700	4900
Maximum Absolute Gain(dBi)	-3.50	-2.28	-2.88	-4.04	-5.33	-6.34	-5.65	-5.45	-6.18	-6.97	-7.48	-5.85	-4.77	-8.50	-10.78
Efficiency(dB)	-8.39	-8.03	-8.60	-9.01	-8.94	-9.56	-10.15	-10.44	-11.56	-12.37	-12.62	-11.52	-10.55	-11.54	-14.54

Frequency(MHz)	4950	5000	5030	5060.5	5091	5150	5200	5350	5500	5650	5750	5850	5925	6000
Maximum Absolute Gain(dBi)	-11.10	-10.81	-10.73	-10.95	-11.07	-10.82	-10.98	-11.35	-11.64	-13.13	-10.88	-10.47	-11.54	-11.17
Efficiency(dB)	-15.22	-15.63	-15.58	-15.82	-15.89	-16.01	-15.96	-16.77	-17.60	-16.57	-16.11	-16.50	-16.94	-16.29

5.最大利得･放射効率 Maximum Absolute Gain and Efficiency

T18-077-1108

Frequency(MHz)	600	617	630	634.5	652	660	663	680.5	698	699	703	704	707.5	710	716
Maximum Absolute Gain(dBi)	-13.31	-15.51	-15.33	-15.11	-13.80	-14.09	-14.67	-12.88	-13.06	-13.03	-12.65	-12.50	-12.19	-12.20	-12.09
Efficiency(dB)	-15.70	-18.36	-17.97	-18.11	-17.23	-17.74	-18.79	-16.24	-17.08	-17.05	-16.60	-16.41	-16.03	-16.01	-15.69

Frequency(MHz)	725.5	729	734	737.5	740	746	748	751	756	758	763	768	777	780.5	782
Maximum Absolute Gain(dBi)	-12.01	-11.77	-11.55	-11.54	-11.53	-11.62	-11.50	-11.14	-10.39	-10.10	-9.52	-9.05	-8.48	-8.31	-8.22
Efficiency(dB)	-15.34	-15.09	-14.85	-14.67	-14.43	-14.00	-13.78	-13.31	-12.71	-12.49	-11.96	-11.54	-10.99	-10.77	-10.63

Frequency(MHz)	787	788	791	793	798	803	806	814	815	821	822.5	824	830	831.5	832
Maximum Absolute Gain(dBi)	-7.85	-7.77	-7.43	-7.23	-7.09	-6.72	-6.41	-5.43	-5.34	-4.87	-4.78	-4.68	-4.54	-4.56	-4.53
Efficiency(dB)	-9.91	-9.75	-9.23	-8.93	-8.57	-8.01	-7.71	-6.82	-6.77	-6.64	-6.65	-6.65	-6.61	-6.59	-6.57

Frequency(MHz)	836.5	837.5	845	847	849	859	860	862	865	867.5	868	869	875	876.5	880
Maximum Absolute Gain(dBi)	-4.09	-4.02	-4.17	-4.35	-4.58	-5.84	-5.96	-6.19	-6.11	-5.99	-5.98	-5.98	-6.58	-6.70	-7.15
Efficiency(dB)	-6.34	-6.32	-6.80	-7.05	-7.33	-8.53	-8.53	-8.52	-8.47	-8.41	-8.40	-8.40	-8.77	-8.81	-9.11

Frequency(MHz)	881.5	882.5	890	894	897.5	900	902	915	922	925	928	930	940	942.5	960
Maximum Absolute Gain(dBi)	-7.26	-7.30	-7.81	-7.57	-7.32	-6.68	-6.92	-5.41	-5.21	-5.18	-5.10	-4.96	-4.67	-4.85	-5.50
Efficiency(dB)	-9.15	-9.15	-9.15	-8.77	-8.45	-7.97	-8.10	-7.21	-7.09	-7.17	-7.30	-7.32	-7.40	-7.51	-8.19

Frequency(MHz)	1176.5	1227.6	1246.0	1278.8	1427.9	1437.9	1440.0	1447.9	1455.4	1462.9	1475.9	1485.9	1495.9	1503.4	1510.9
Maximum Absolute Gain(dBi)	-13.57	-19.53	-18.46	-16.14	-10.93	-11.66	-11.71	-11.81	-11.92	-11.84	-10.42	-9.36	-8.86	-8.39	-8.13
Efficiency(dB)	-17.62	-24.05	-21.81	-19.67	-13.92	-14.02	-14.13	-14.18	-14.45	-14.50	-14.05	-13.60	-13.37	-12.95	-12.62

Frequency(MHz)	1575.42	1602	1710	1732.5	1740	1745	1747.5	1749.9	1755	1767.4	1780	1784.9	1785	1805	1842.5
Maximum Absolute Gain(dBi)	-10.10	-9.76	-5.00	-4.56	-4.09	-4.18	-4.17	-4.05	-3.78	-3.58	-3.22	-3.12	-3.10	-2.96	-2.91
Efficiency(dB)	-12.95	-12.28	-8.75	-7.94	-7.40	-7.69	-7.72	-7.66	-7.42	-7.26	-6.96	-6.84	-6.84	-6.67	-6.52

5.最大利得･放射効率 Maximum Absolute Gain and Efficiency

T18-077-1108

Frequency(MHz)	1844.9	1850	1862.4	1879.9	1880	1882.5	1900	1910	1915	1920	1930	1950	1960	1962.5	1980
Maximum Absolute Gain(dBi)	-2.92	-2.94	-3.02	-3.00	-3.02	-3.00	-2.99	-3.14	-3.20	-3.05	-2.92	-2.76	-2.49	-2.45	-2.35
Efficiency(dB)	-6.54	-6.57	-6.74	-6.87	-6.87	-6.91	-7.63	-7.82	-7.86	-7.76	-7.88	-8.06	-8.27	-8.29	-8.46

Frequency(MHz)	1990	1995	2010	2025	2110	2132.5	2140	2155	2170	2200	2300	2305	2310	2315	2350
Maximum Absolute Gain(dBi)	-2.62	-2.60	-2.34	-2.36	-4.16	-4.79	-5.24	-5.57	-5.96	-7.12	-4.71	-4.62	-4.75	-4.70	-4.26
Efficiency(dB)	-8.48	-8.52	-8.40	-8.36	-8.09	-8.32	-8.61	-9.03	-9.44	-9.87	-9.16	-9.06	-9.23	-9.22	-8.90

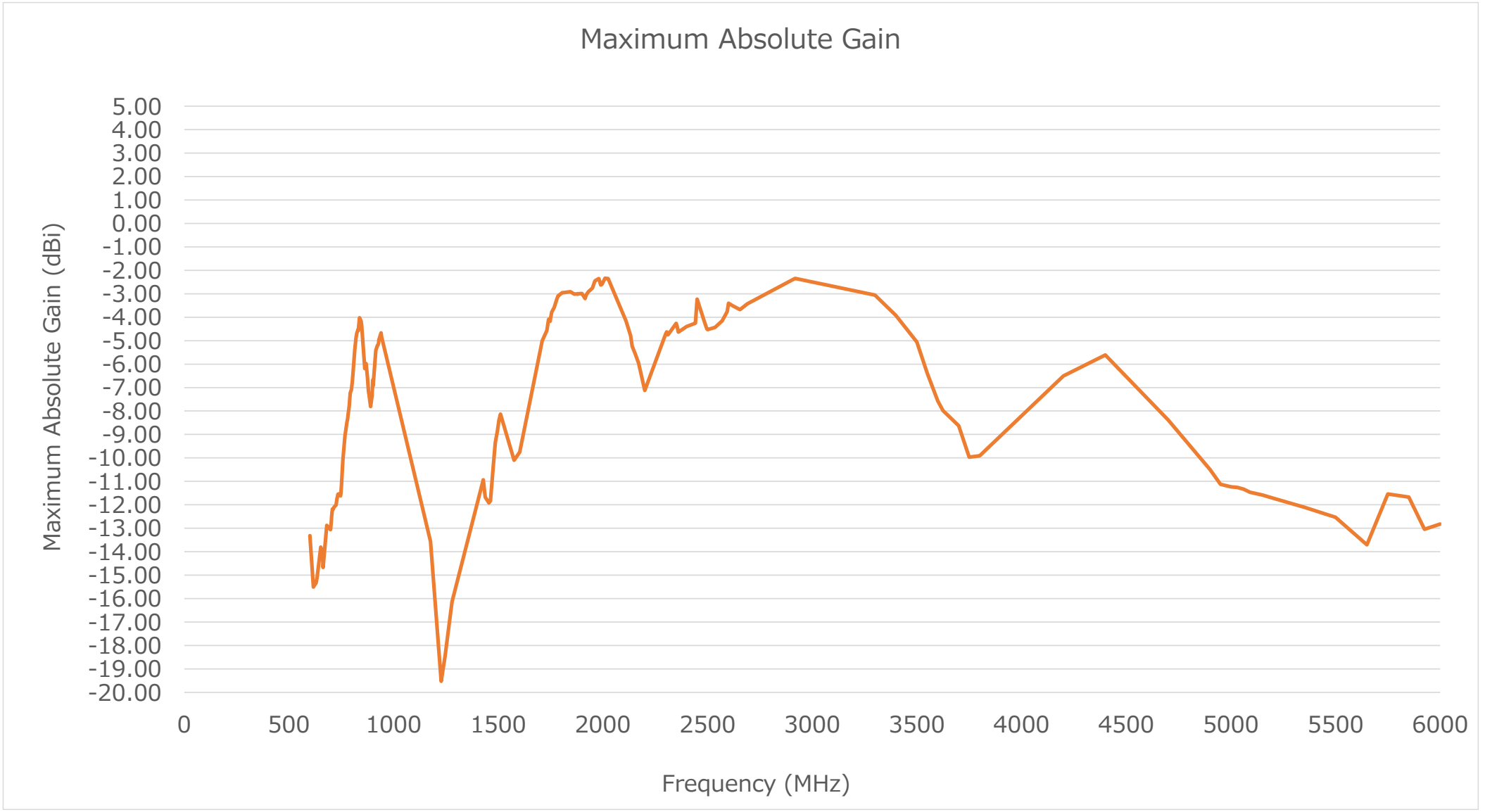
Frequency(MHz)	2355	2360	2400	2442	2450	2483.5	2496	2500	2535	2570	2593	2595	2600	2620	2655
Maximum Absolute Gain(dBi)	-4.41	-4.63	-4.39	-4.26	-3.23	-4.15	-4.49	-4.52	-4.44	-4.15	-3.77	-3.71	-3.40	-3.51	-3.67
Efficiency(dB)	-8.99	-9.14	-8.96	-9.02	-8.50	-8.96	-9.13	-9.13	-9.02	-8.65	-8.35	-8.31	-8.06	-8.49	-8.45

Frequency(MHz)	2690	2917.5	3300	3400	3500	3550	3600	3625	3700	3750	3800	4200	4400	4700	4900
Maximum Absolute Gain(dBi)	-3.43	-2.34	-3.06	-3.93	-5.05	-6.40	-7.57	-7.98	-8.63	-9.97	-9.91	-6.51	-5.61	-8.38	-10.50
Efficiency(dB)	-8.60	-8.07	-9.19	-9.58	-9.49	-10.34	-11.38	-11.90	-13.37	-14.19	-14.28	-12.26	-10.95	-11.76	-14.83

Frequency(MHz)	4950	5000	5030	5060.5	5091	5150	5200	5350	5500	5650	5750	5850	5925	6000
Maximum Absolute Gain(dBi)	-11.13	-11.24	-11.25	-11.34	-11.46	-11.58	-11.72	-12.10	-12.53	-13.70	-11.54	-11.67	-13.05	-12.82
Efficiency(dB)	-15.56	-16.08	-16.02	-16.26	-16.34	-16.54	-16.59	-17.18	-17.83	-17.66	-16.64	-16.69	-17.21	-16.56

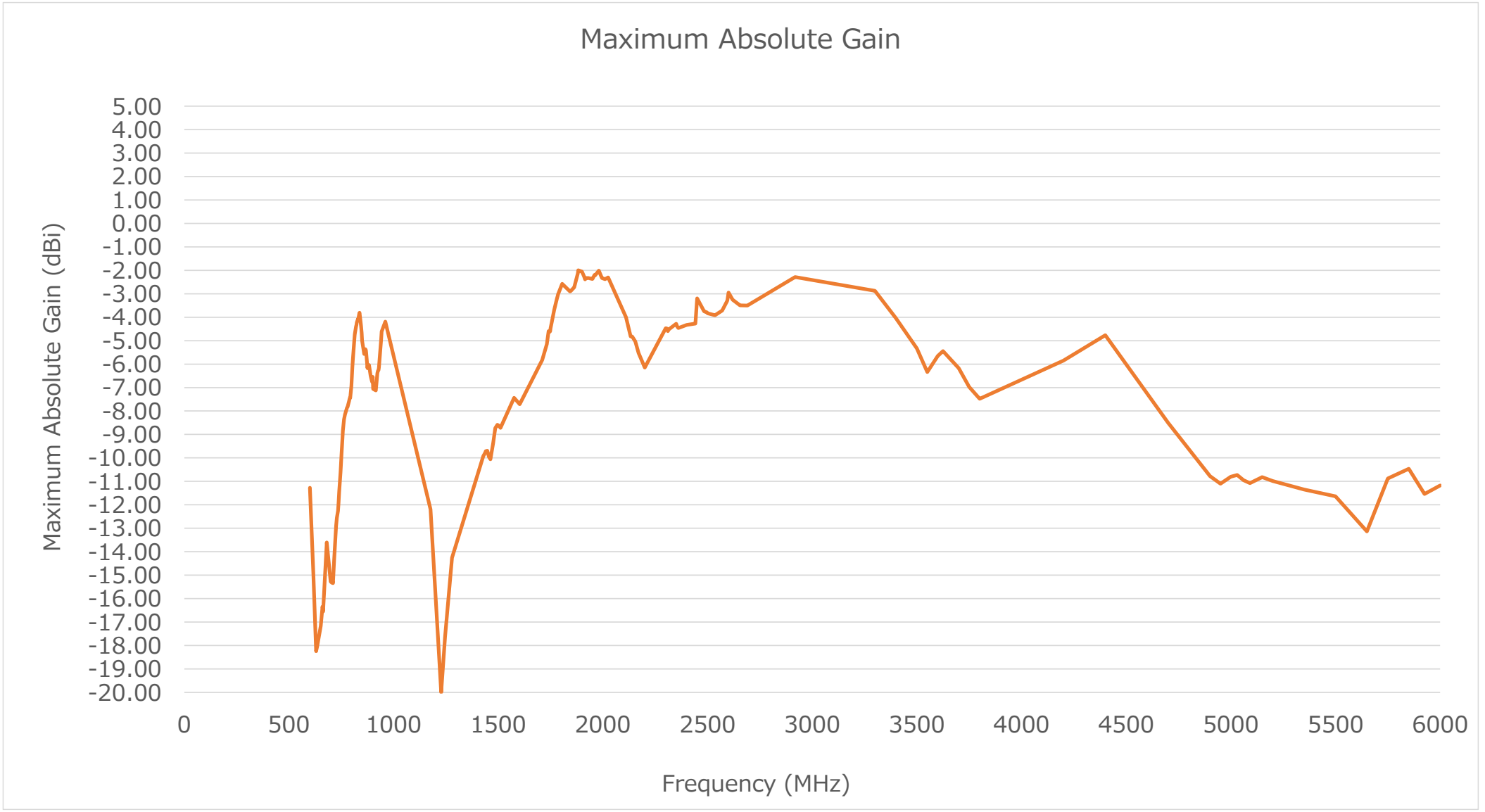
6.最大利得 Maximum Absolute Gain

T18-077-1107



6.最大利得 Maximum Absolute Gain

T18-077-1108



7.放射効率 Efficiency

T18-077-1107

7.放射効率 Efficiency

T18-077-1108

8.来歴 Revision History

日付 Date	変更前 Before Change	変更後 After Change	氏名 Name
2019/07/26	P3.技適申請番号を追記 P3. Add Application Number		Takeda
2024/12/04	測定周波数変更 (Frequency Change)		Takeda