

# RICOH IMAGING

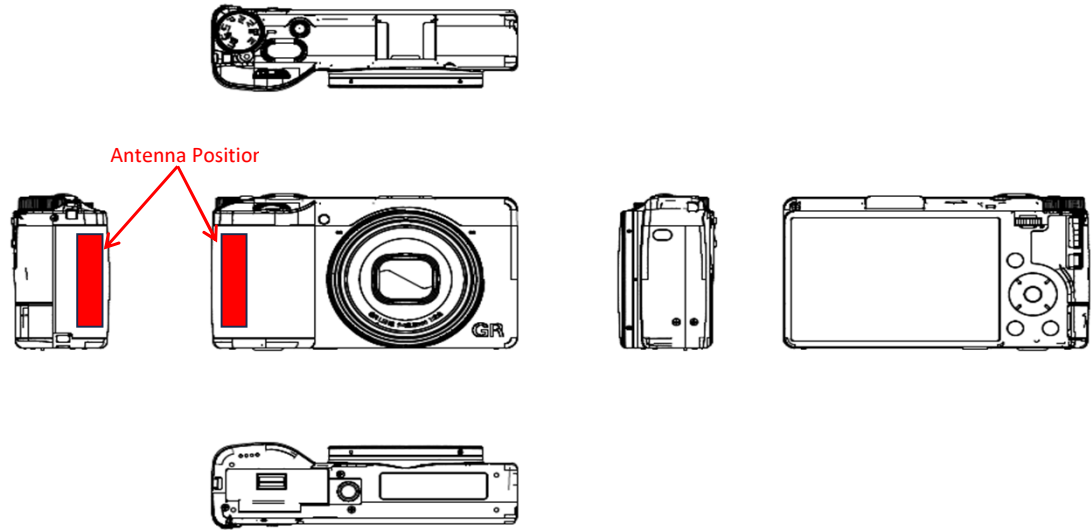
## ANTENNA SPEC

製造者 Manufacturer      リコーイメージング株式会社  
RICOH IMAGING COMPANY, LTD.

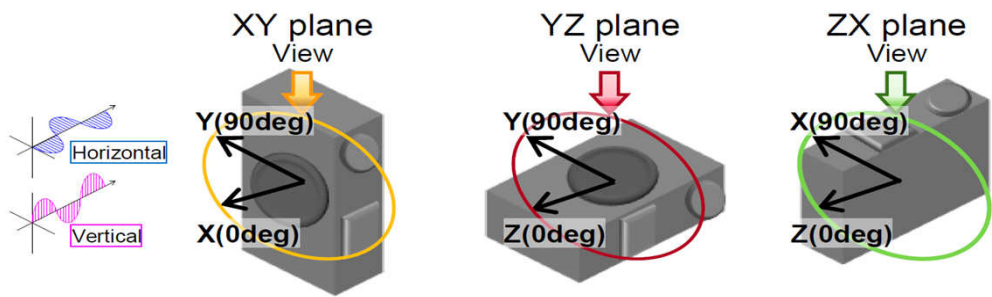
仕様 Specification

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| 対応カメラ<br>Compatible Camera Model | R09010                                                                      |
| アンテナ名称<br>Antenna Model Name     | T441A                                                                       |
| 周波数範囲<br>Frequency range         | 2400 ～ 2500 MHz<br>5150 ～ 5250 MHz / 5725 ～ 5850 MHz                        |
| アンテナ型式<br>Antenna Type           | FPC λ/4 モノポールアンテナ<br>FPC λ/4 Monopole Antenna                               |
| 最大利得<br>Peak gain                | 2.4GHz band : ≦ -0.1dBi<br>5.2GHz band : ≦ 2.0dBi<br>5.8GHz band : ≦ 3.4dBi |
| インピーダンス<br>Impedance             | 50 ohm                                                                      |

アンテナ位置 Antenna Position

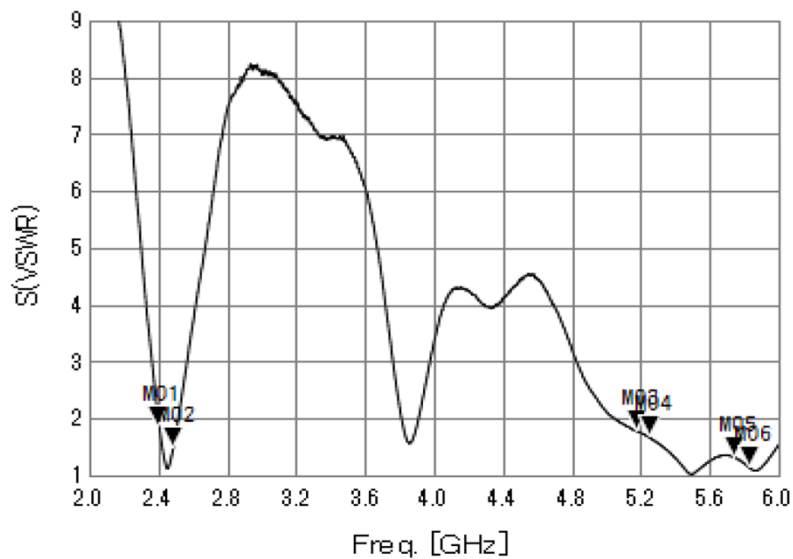


座標定義 Coordinate definition



V.S.W.R.

|          | 周波数[MHz] |        |        |        |        |        |       |        |        |
|----------|----------|--------|--------|--------|--------|--------|-------|--------|--------|
|          | 2400     | 2450   | 2500   | 5150   | 5200   | 5250   | 5725  | 5787.5 | 5850   |
| V.S.W.R. | 1.8669   | 1.1456 | 1.8374 | 1.8222 | 1.7577 | 1.6782 | 1.354 | 1.2474 | 1.1063 |



利得 Gain

<2.4GHz band>

| Frequency [MHz]  | 2400 | 2440 | 2480 |
|------------------|------|------|------|
| Peak gain [dBi]  | -0.9 | -0.1 | -0.7 |
| Efficiency [%]   | 36.7 | 42.7 | 39.4 |
| Average gain[dB] | -7.6 | -6.9 | -7.4 |

<W52 band>

| Frequency [MHz]  | 5170 | 5200 | 5250 |
|------------------|------|------|------|
| Peak gain [dBi]  | 1.9  | 1.8  | 2.0  |
| Efficiency [%]   | 42.1 | 43.6 | 43.4 |
| Average gain[dB] | -6.7 | -6.5 | -6.5 |

<W58 band>

| Frequency [MHz]  | 5745 | 5765 | 5785 | 5805 | 5825 |
|------------------|------|------|------|------|------|
| Peak gain [dBi]  | 3.4  | 3.3  | 3.2  | 3.0  | 3.1  |
| Efficiency [%]   | 41.2 | 41.3 | 41.0 | 39.3 | 39.2 |
| Average gain[dB] | -6.9 | -6.9 | -6.9 | -7.1 | -7.1 |

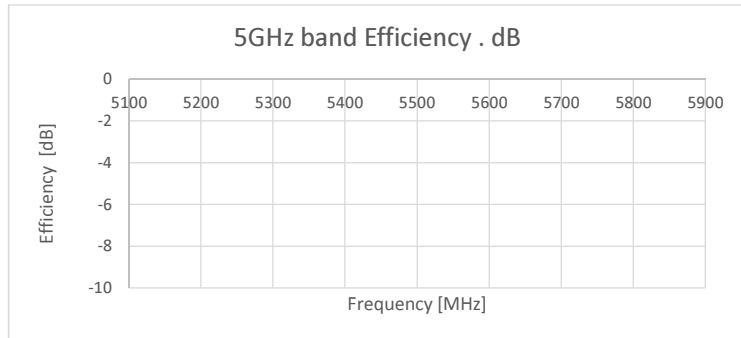
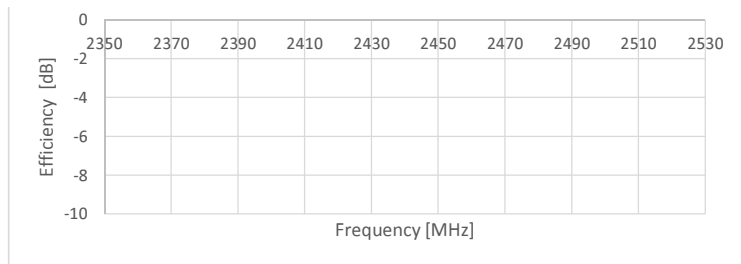
放射効率 Efficiency . dB

| Frequency | Efficiency . dB |
|-----------|-----------------|
| 2360      | -5.68723        |

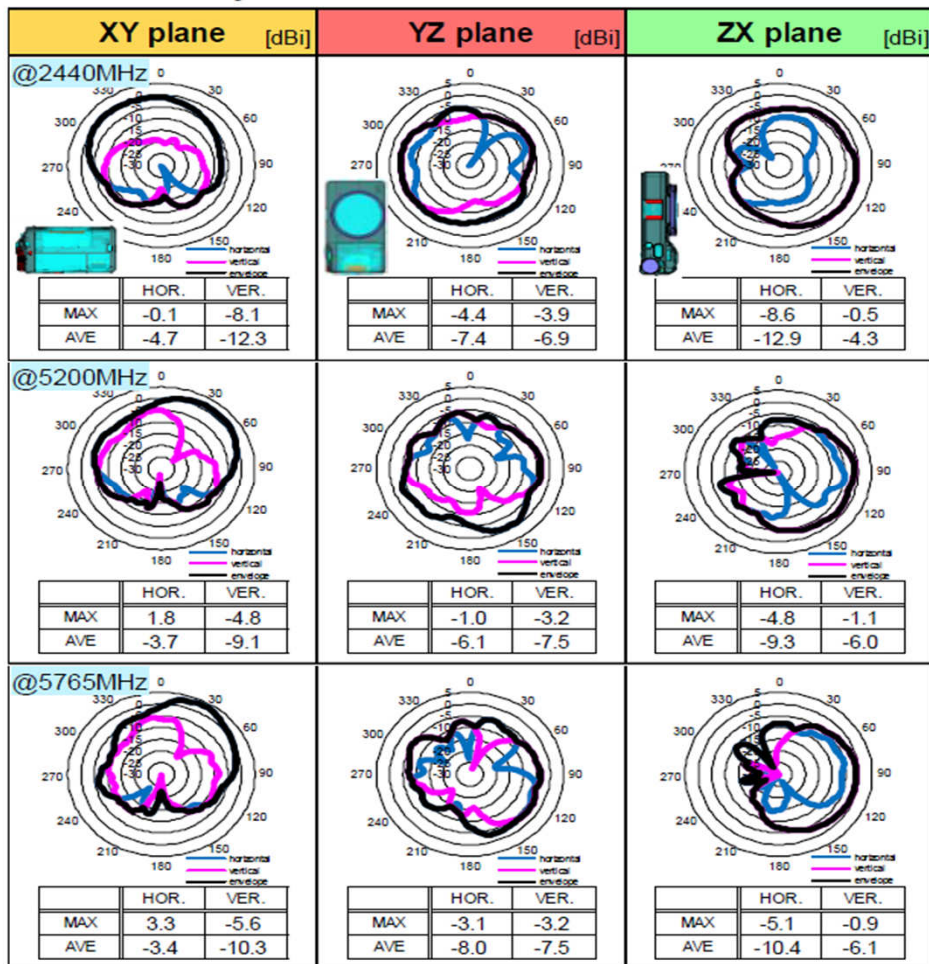
2.4GHz band Efficiency . dB

|             |      |          |
|-------------|------|----------|
| 2.4GHz band | 2400 | -4.35839 |
|             | 2440 | -3.69435 |
|             | 2480 | -4.04056 |
|             | 2520 | -4.70699 |

|           | Frequency | Efficiency . dB |
|-----------|-----------|-----------------|
| 5GHz band | 5170      | -3.76059        |
|           | 5200      | -3.60442        |
|           | 5250      | -3.62766        |
|           | 5300      | -3.60981        |
|           | 5350      | -3.46473        |
|           | 5400      | -3.37009        |
|           | 5450      | -3.28941        |
|           | 5500      | -3.26934        |
|           | 5550      | -3.36943        |
|           | 5600      | -3.55621        |
|           | 5650      | -3.74031        |
|           | 5700      | -3.85873        |
|           | 5745      | -3.84641        |
|           | 5765      | -3.84093        |
|           | 5785      | -3.87692        |
|           | 5805      | -4.06101        |
|           | 5825      | -4.06971        |



### 指向性 Directivity



Over.