



# Specification

Customer: SuZhou Saixun Communication Technology Co., Ltd.

Product: PCB Antenna

specification: I-PEX, PCB-0.81Cable, L=85mm

material No. : SX-007-2208

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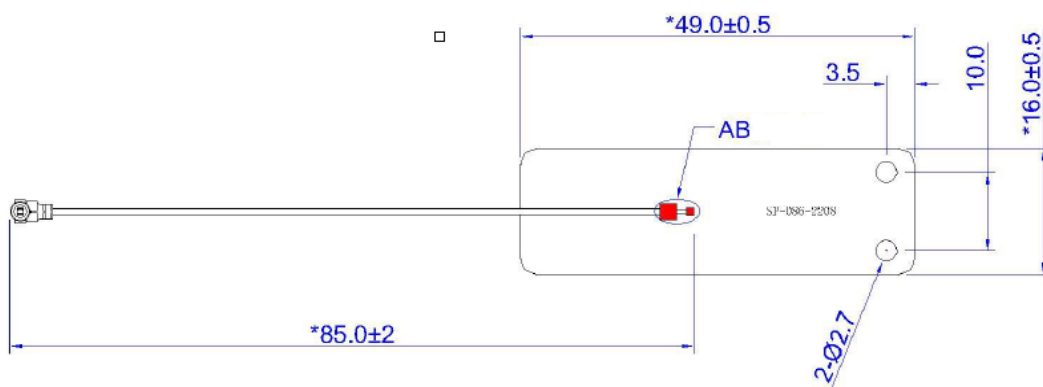
\*SuZhou Saixun Communication Technology Co., Ltd.

\*Add: NO.629, Yunli Road, WuJiang District, SuZhou City, JiangSu Province, China

\*TEL: 0512-63636028

\*E-Mail: saixun@szsaixun.com

\*Web: www.szsaixun.com



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### Electrical parameters

|                          |                     |
|--------------------------|---------------------|
| Frequency range          | 2.4-2.5GHz          |
| Characteristic impedance | 50 $\Omega$         |
| VSWR                     | $\leq 2.0$          |
| Antenna                  | dipole              |
| Polarization mode        | horizontal/vertical |
| Gain                     | 0.23dBi             |
| efficiency               | report              |

### Mechanical properties

|                       |               |
|-----------------------|---------------|
| connector             | I-PEX I       |
| Feeder specifications | RF 0.81       |
| Feeder length         | 85mm          |
| antenna size          | 49.0*16.0     |
| Feeder specifications | Screw locking |

### environment specification

|                       |                             |
|-----------------------|-----------------------------|
| Operating temperature | -45 $\sim$ +85 $^{\circ}$ C |
| storage temperature   | -30 $\sim$ +65 $^{\circ}$ C |

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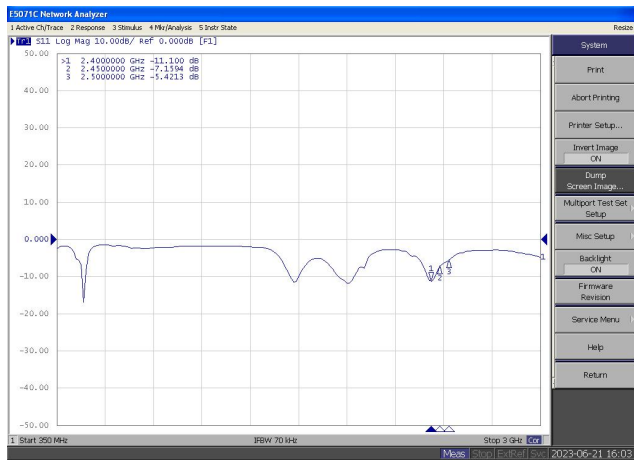
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(return LOSS和VSWR)



return LOSS



VSWR

| Frequency ID     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz)  | 2400  | 2410  | 2420  | 2430  | 2440  | 2450  | 2460  | 2470  | 2480  | 2490  | 2500  |
| Efficiency (dBi) | -6.02 | -6.22 | -6.30 | -6.31 | -6.59 | -7.18 | -7.46 | -7.46 | -7.51 | -8.06 | -8.60 |
| Gain (dBi)       | 0.00  | 0.15  | 0.23  | 0.22  | -0.16 | -1.32 | -1.37 | -1.25 | -1.21 | -1.69 | -2.47 |
| Efficiency (%)   | 24.99 | 23.89 | 23.43 | 23.38 | 21.95 | 19.15 | 17.93 | 17.95 | 17.73 | 15.65 | 13.81 |

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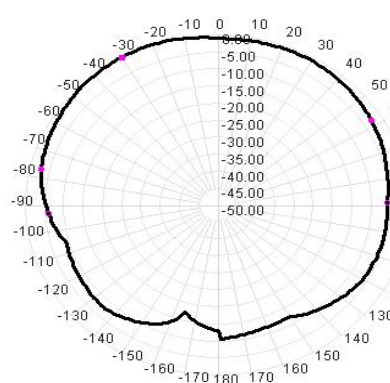
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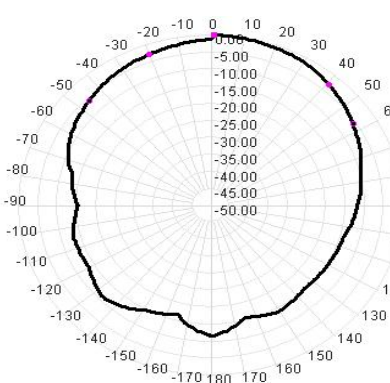


(2D&3D) 2400.0MHz

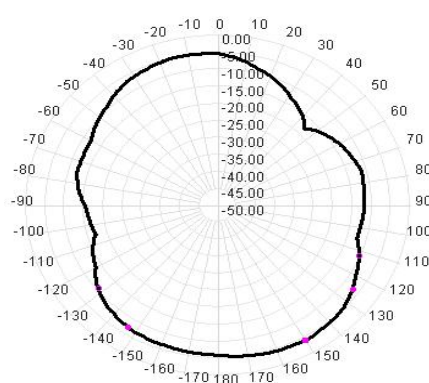
Total(E1-XZ), Max= 0.00dBi



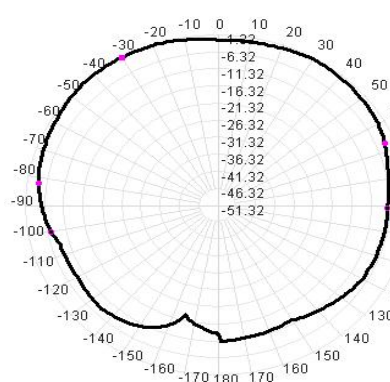
2400.0MHz Total(E2-YZ), Max= -0.03dBi



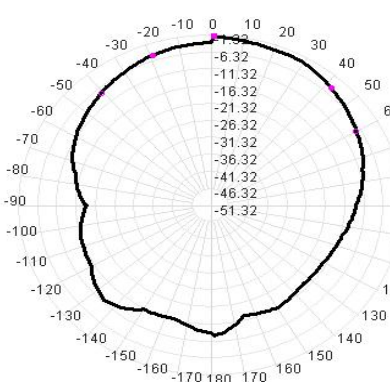
Total(H-XY), Max= -4.37dBi, CirD=14.08



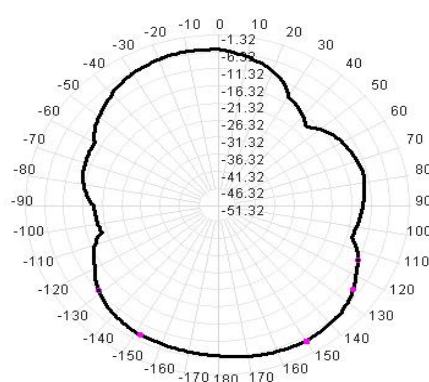
2450.0MHz Total(E1-XZ), Max= -1.32dBi



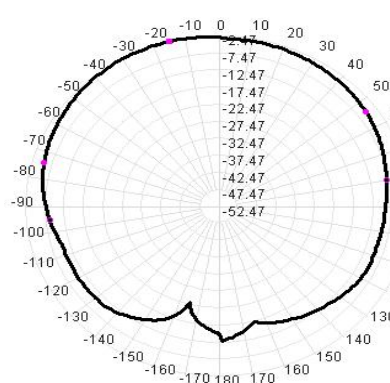
2450.0MHz Total(E2-YZ), Max= -1.81dBi



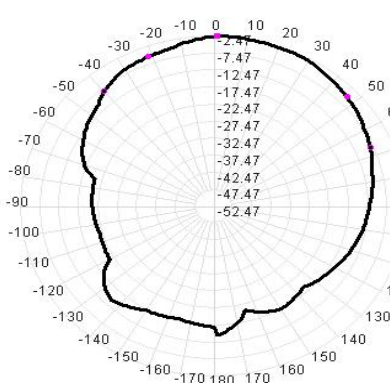
Total(H-XY), Max= -5.42dBi, CirD=14.73



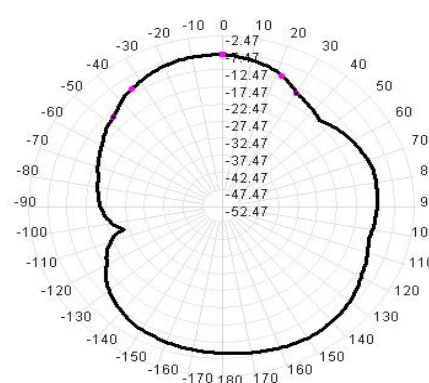
2500.0MHz Total(E1-XZ), Max= -2.48dBi



2500.0MHz Total(E2-YZ), Max= -2.47dBi



Total(H-XY), Max= -7.90dBi, CirD=18.46



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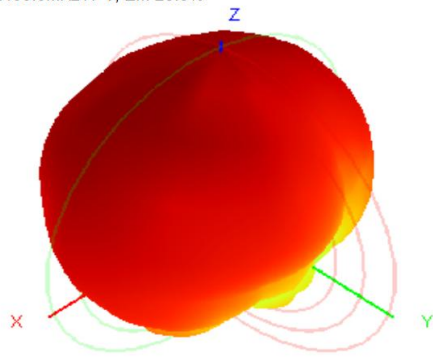
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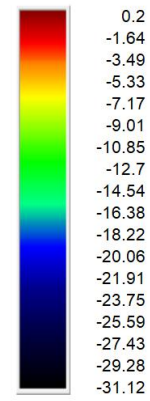
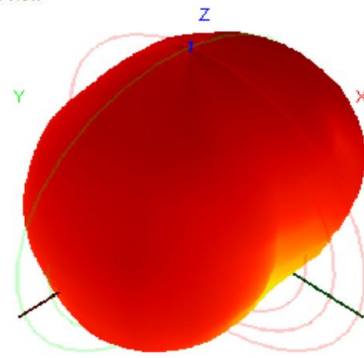
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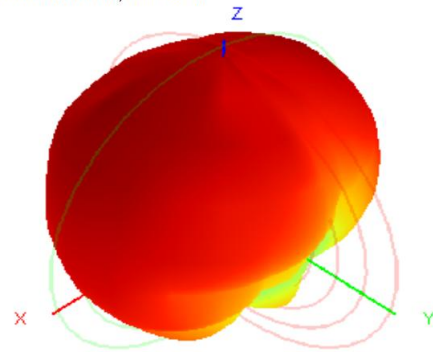
2400.0MHz H+V, Eff: 25.0%



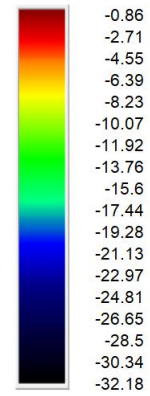
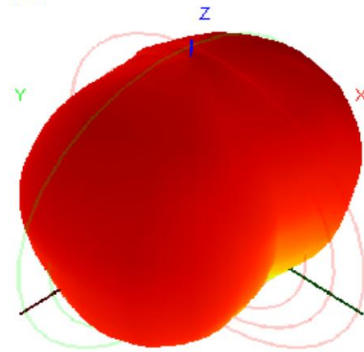
Back View



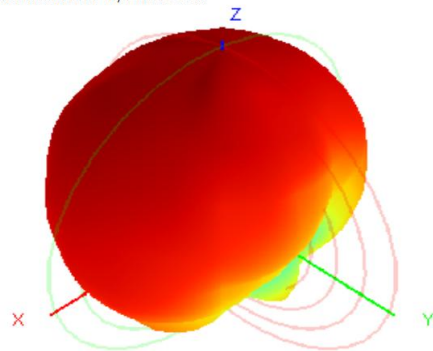
2450.0MHz H+V, Eff: 19.1%



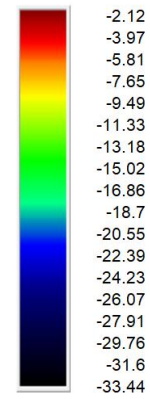
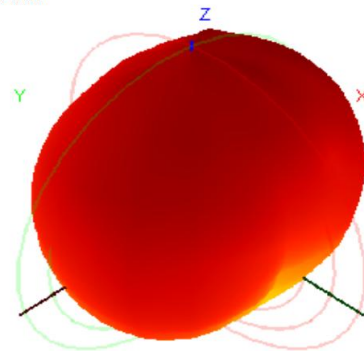
Back View



2500.0MHz H+V, Eff: 13.8%



Back View



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