

# SPECIFICATION

*Shenzhen Feixin Wireless Communication*



**深圳飞芯无线通讯有限公司**

*Shenzhen Feixin Wireless Communication Co., Ltd.*

## 2.4G-5.8G SMT steel antenna

### Product specification

Customer		Frequency	2400MHz——2500MHz 5150——5850MHz
R F design	XIAO BIN	Version	A1
Technical director	ANDY	date	2025-07-15

Customer confirmation:

Whether the assembly meets your company's requirements: OK NG

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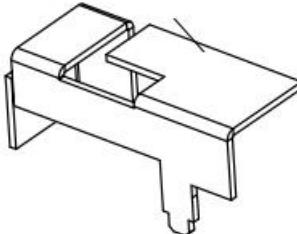
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## 1、Product pictures



## 2、Product parameters

Product testing parameters			
产品名称(Name)	2.4G-5.8G antenna	产品型号(Model Type)	FX-2.4G-5.8G-GP-SM T-1001
<b>电性能指标 (Electrical Specifications)</b>			
频率范围 (Frequency Range)	2400-2500MHz 5150-5850MHz	极化方式 (Polarization)	垂直(vertical)
输入阻抗(Impedance)	50 Ω	辐射方向 (Radiation direction)	全向(Omnidirectional)
驻波比 (VSWR)	≤3.0	功率容量(Power)	\
增益(Gain)	2.73/2.35dBi	带宽 (Bandwidth)	100/700MHz
<b>机械指标 (Mechanical Specifications)</b>			
尺寸 (Dimensions)	15.0*6.0*6.2±0.2mm	天线颜色(Ant Color)	Silver one
连接器型号 (Connector)	SMT plug-in soldering	引线长度(Cable Length)	\
天线材料 (Ant Material)	304 nickel plating		
工作温度 (Working Temperature)	-40°C - +85°C	存放温度 (Limit Temperature)	-40°C - +85°C

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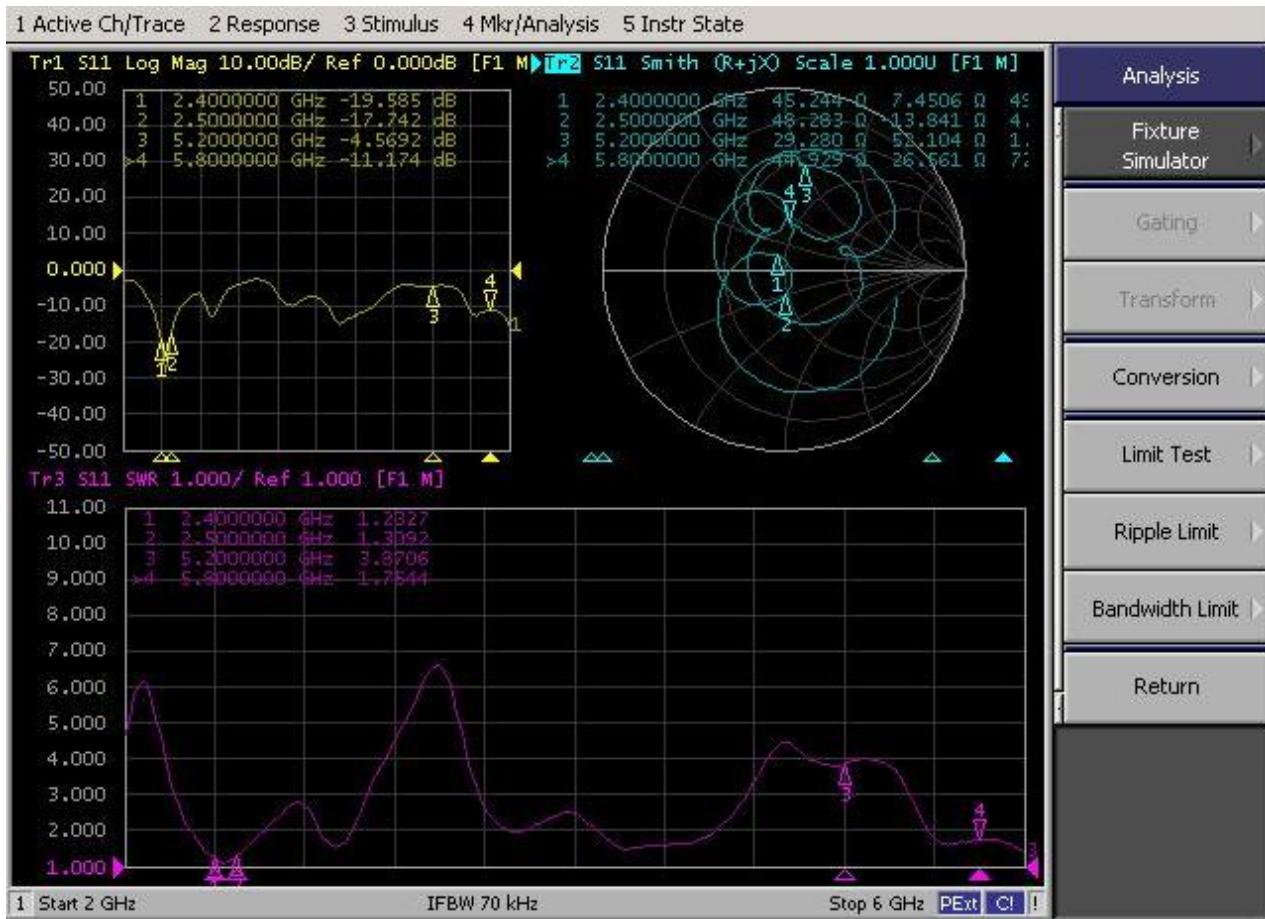
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### 3. VSWR, Return loss and Smith data



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#### 4. Antenna passive test data:

##### (1) Antenna efficiency and gain:

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)
<u>1</u>	5150.0	1.48	45.9%
<u>2</u>	5170.0	1.31	45.8%
<u>3</u>	5190.0	1.34	44.7%
<u>4</u>	5210.0	0.96	43.7%
<u>5</u>	5230.0	1.84	44.9%
<u>6</u>	5250.0	2.06	46.7%
<u>7</u>	5270.0	1.91	48.9%
<u>8</u>	5290.0	1.58	44.3%
<u>9</u>	5310.0	1.57	44.7%
<u>10</u>	5330.0	1.12	44.6%
<u>11</u>	5350.0	1.47	45.4%
<u>12</u>	5370.0	1.19	45.2%
<u>13</u>	5390.0	0.94	43.1%
<u>14</u>	5410.0	1.00	41.2%
<u>15</u>	5430.0	1.05	45.9%
<u>16</u>	5450.0	0.76	44.0%
<u>17</u>	5470.0	0.43	43.0%
<u>18</u>	5490.0	0.90	43.4%
<u>19</u>	5510.0	0.43	42.6%
<u>20</u>	5530.0	0.47	40.1%
<u>21</u>	5550.0	0.65	41.1%
<u>22</u>	5570.0	0.34	39.6%
<u>23</u>	5590.0	0.20	39.4%
<u>24</u>	5610.0	0.49	39.6%
<u>25</u>	5630.0	0.73	40.9%
<u>26</u>	5650.0	0.34	40.3%
<u>27</u>	5670.0	0.56	39.5%
<u>28</u>	5690.0	1.03	45.5%
<u>29</u>	5710.0	1.55	42.7%
<u>30</u>	5730.0	2.35	48.5%
<u>31</u>	5750.0	1.49	43.9%
<u>32</u>	5770.0	0.78	40.2%
<u>33</u>	5790.0	0.57	37.9%
<u>34</u>	5810.0	0.47	41.3%
<u>35</u>	5830.0	0.31	41.2%
<u>36</u>	5850.0	0.06	44.4%

##### (2) Apple chart and direction chart

###### (2-1) Passive -Freq2490.00MHZ

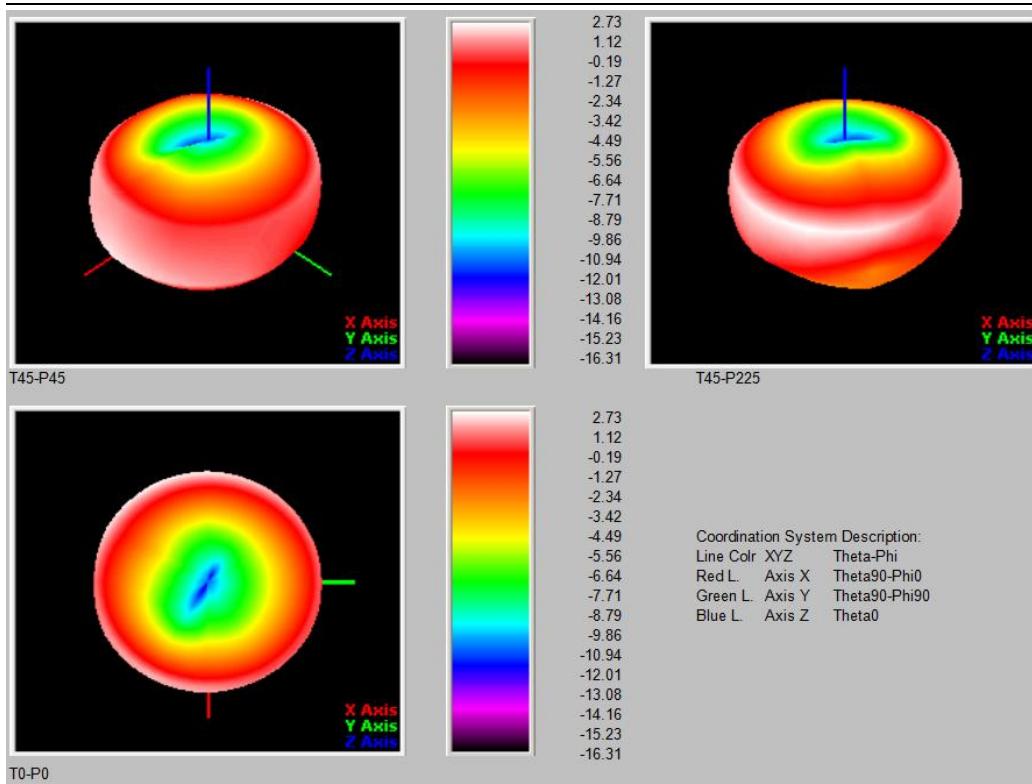
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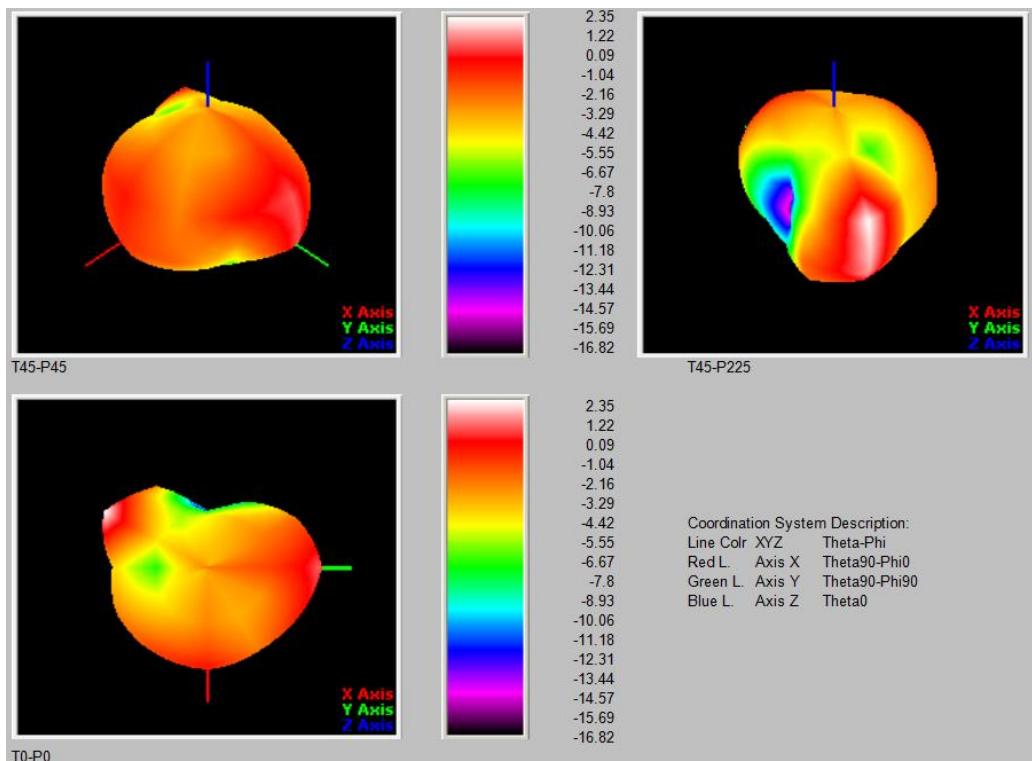
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### (2-2) Passive -Freq5730.00MHZ



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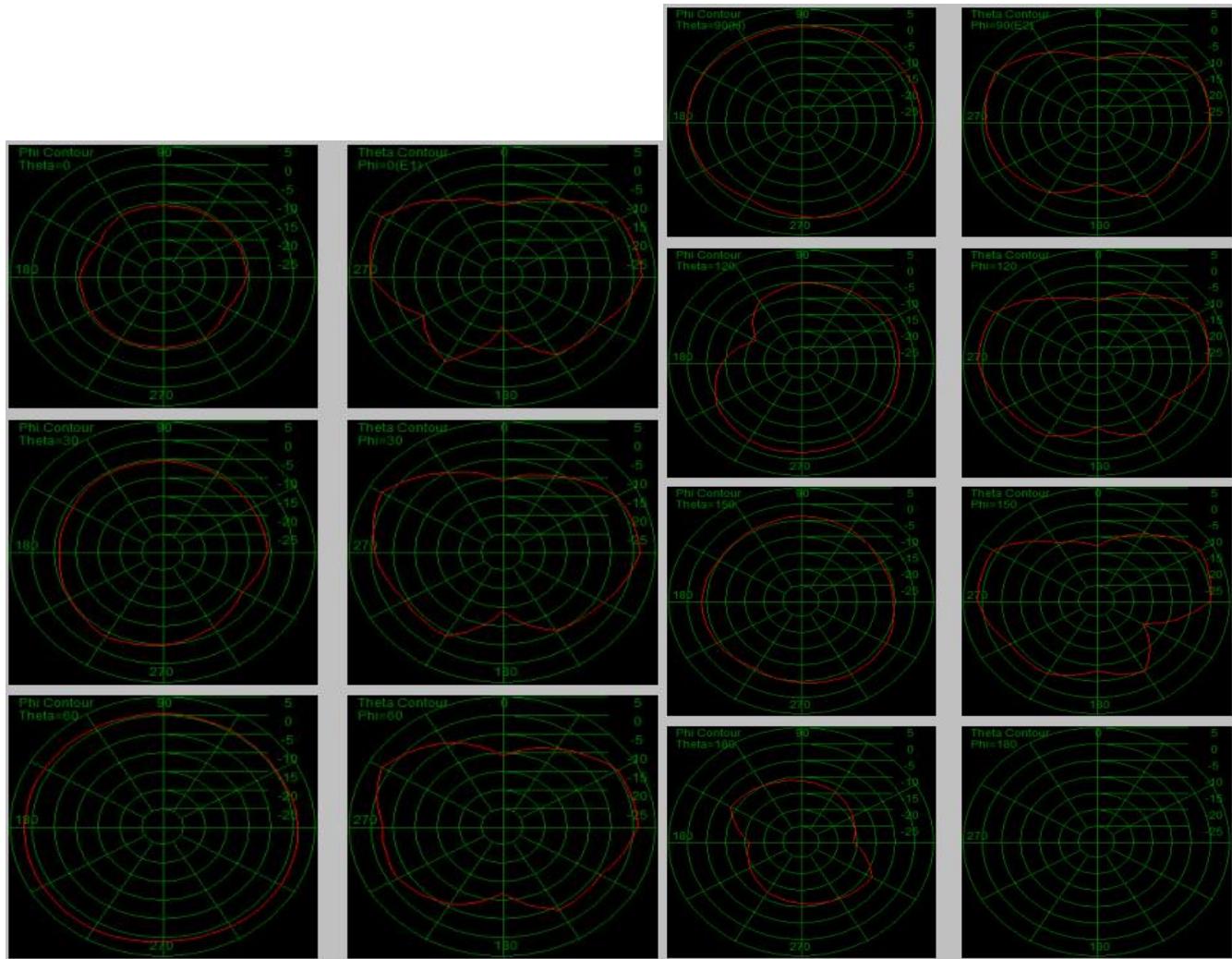
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**Passive -Freq2490.00MHZ**



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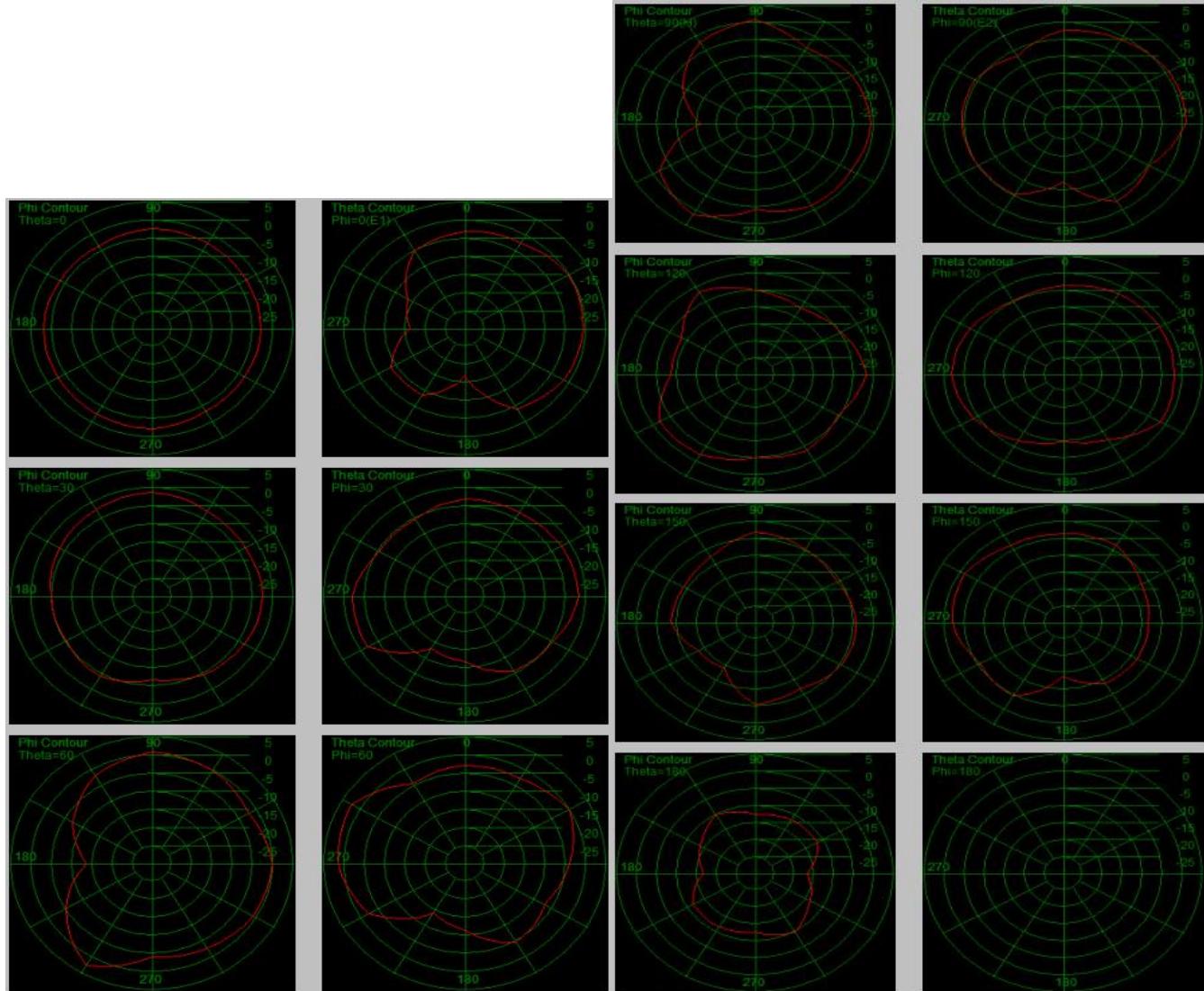
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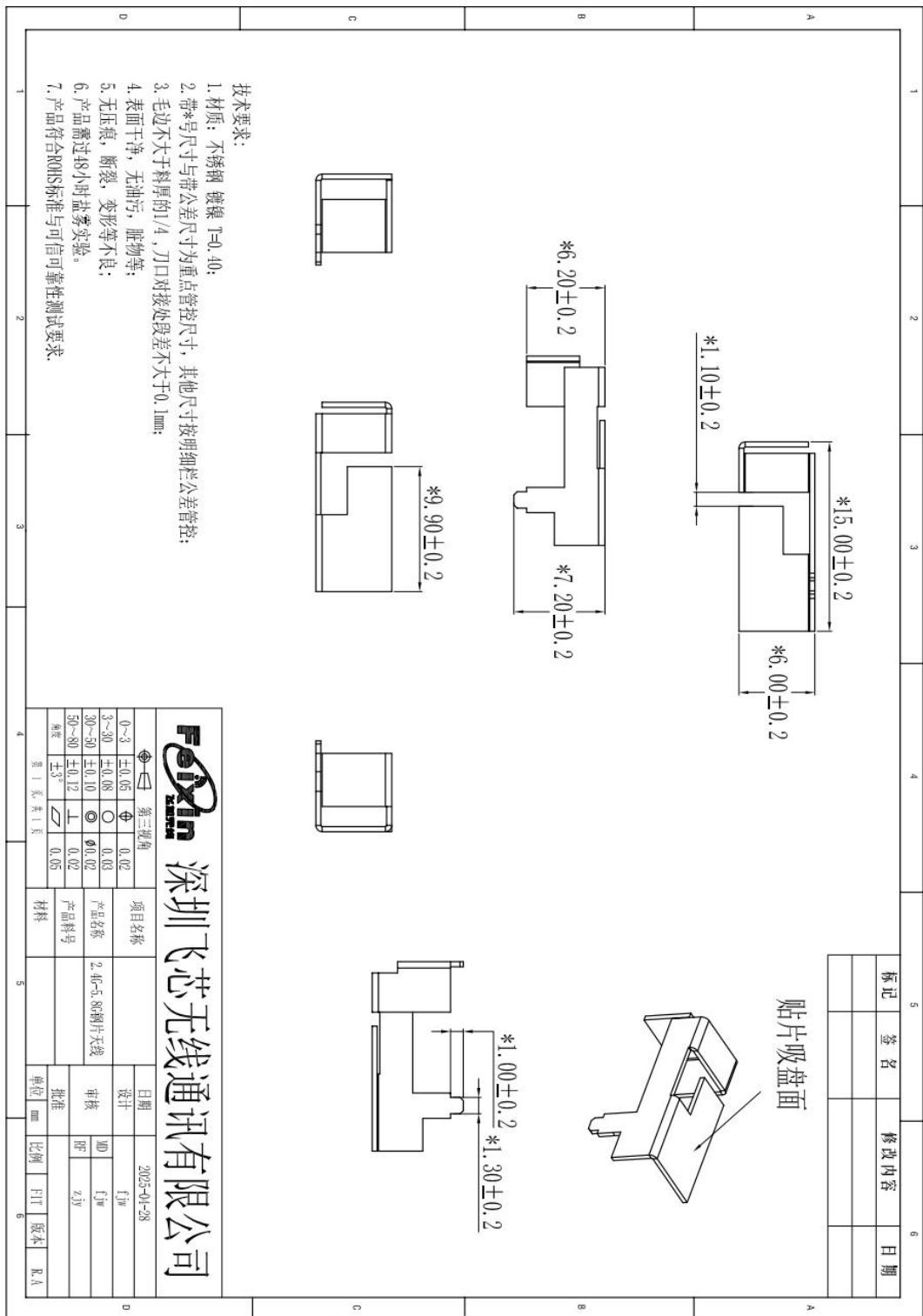
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## 4、Product structure drawing



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