



Specification For Approval

Customer SHINING 3D Tech Co., Ltd.

Supplier Gaoke Ant Co., Ltd.

Customer P/N EE0000119

Production Name 2.4&5.8G Built-in antenna

Production Number GKZS-2.4&5.8G-P0125-RF1.13I-180

Supplier Signature		
Engineer	Checked by	Approved by
Liu Nanju	Xie Qianju	Pan Xiwang
022-July-2024	022-July-2024	07-July-2024

Customer Signature		
Engineer	Checked by	Approved by
Date:	Date:	Date:

Note: After the customer confirms the seal, please send this acknowledgement back to our company.

GaoKe Ant Co., Ltd

Address: No. 22, Guangcong South Road, Shengang, Conghua District, Guangzhou City, Guangdong Province, China

Tel: 020-87080630/87080639/87080632

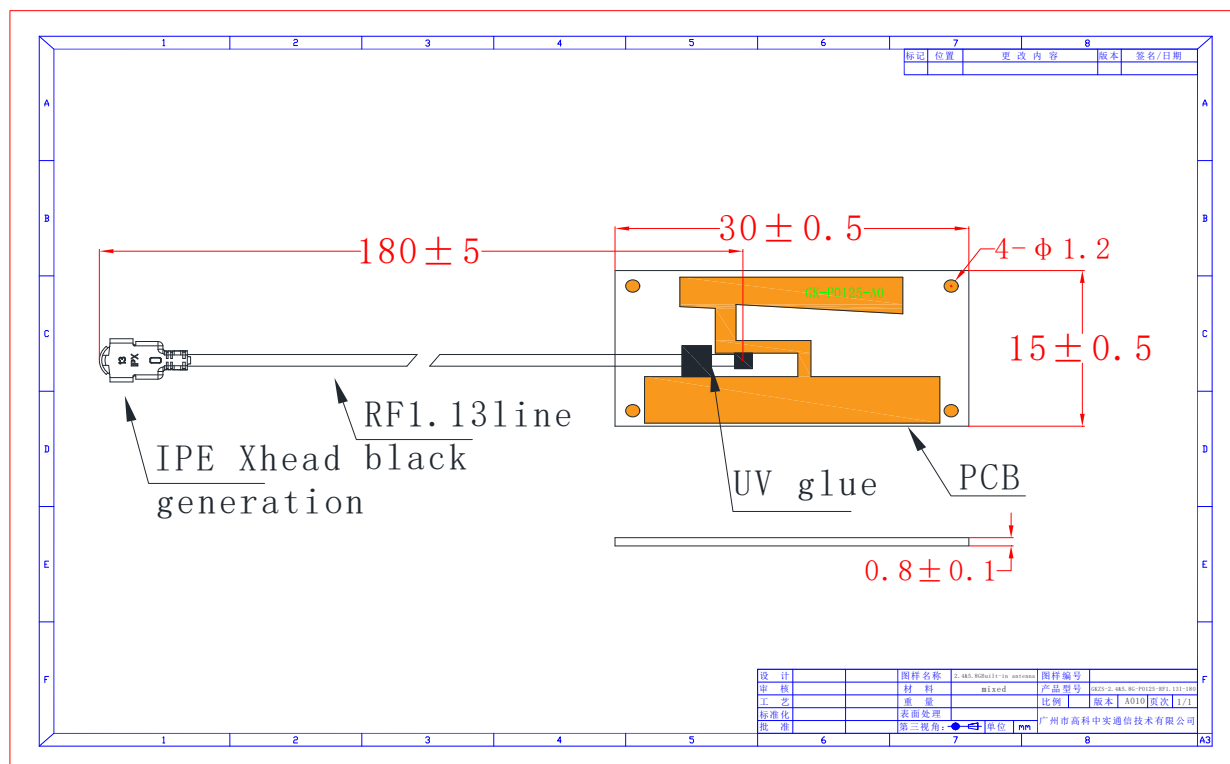
Fax: 020-87080731

<http://www.gkzs.com.cn>



Description Record

1.Product Structure Drawing (mm)



2.product physical image

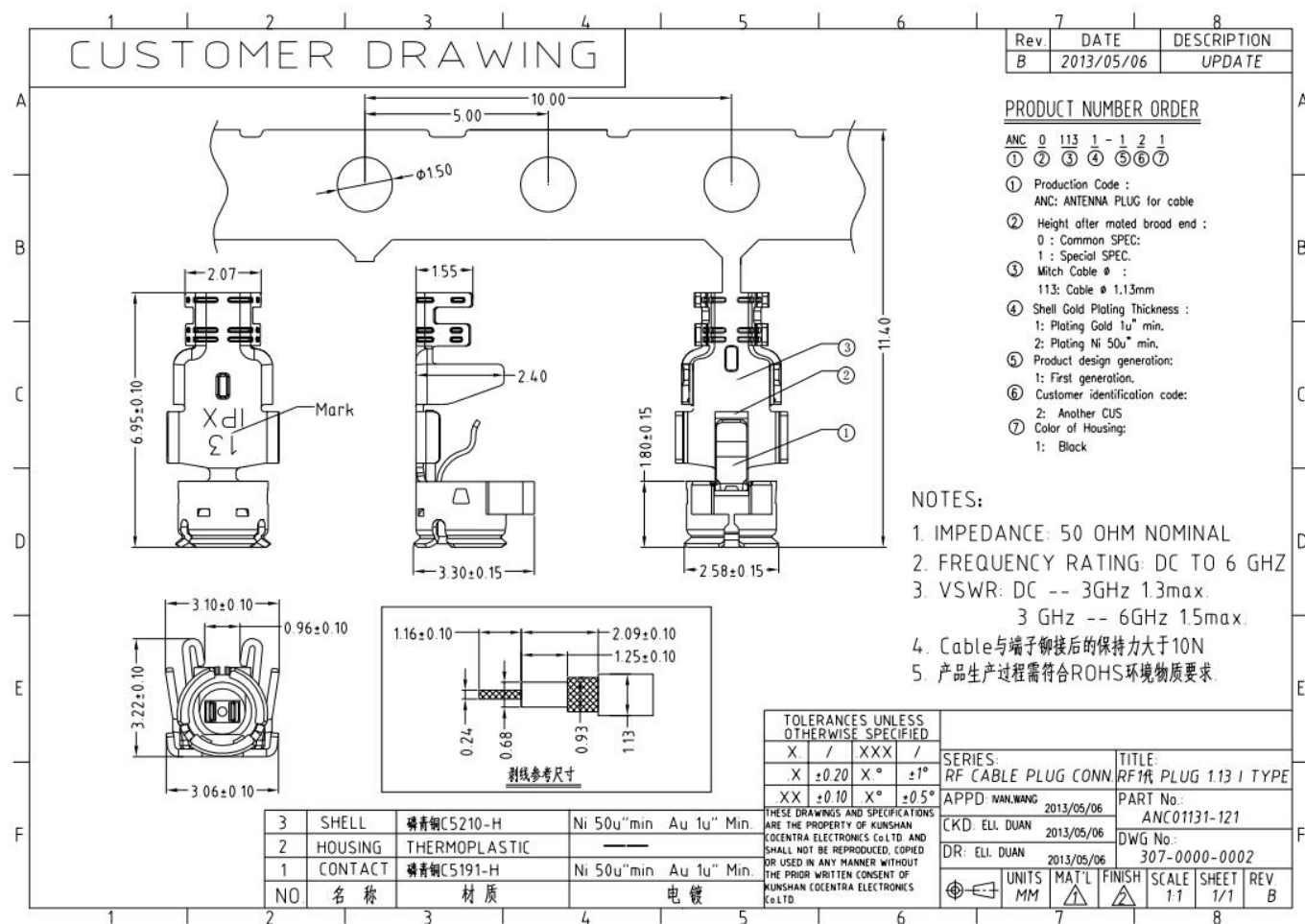




3. Antenna technical parameters

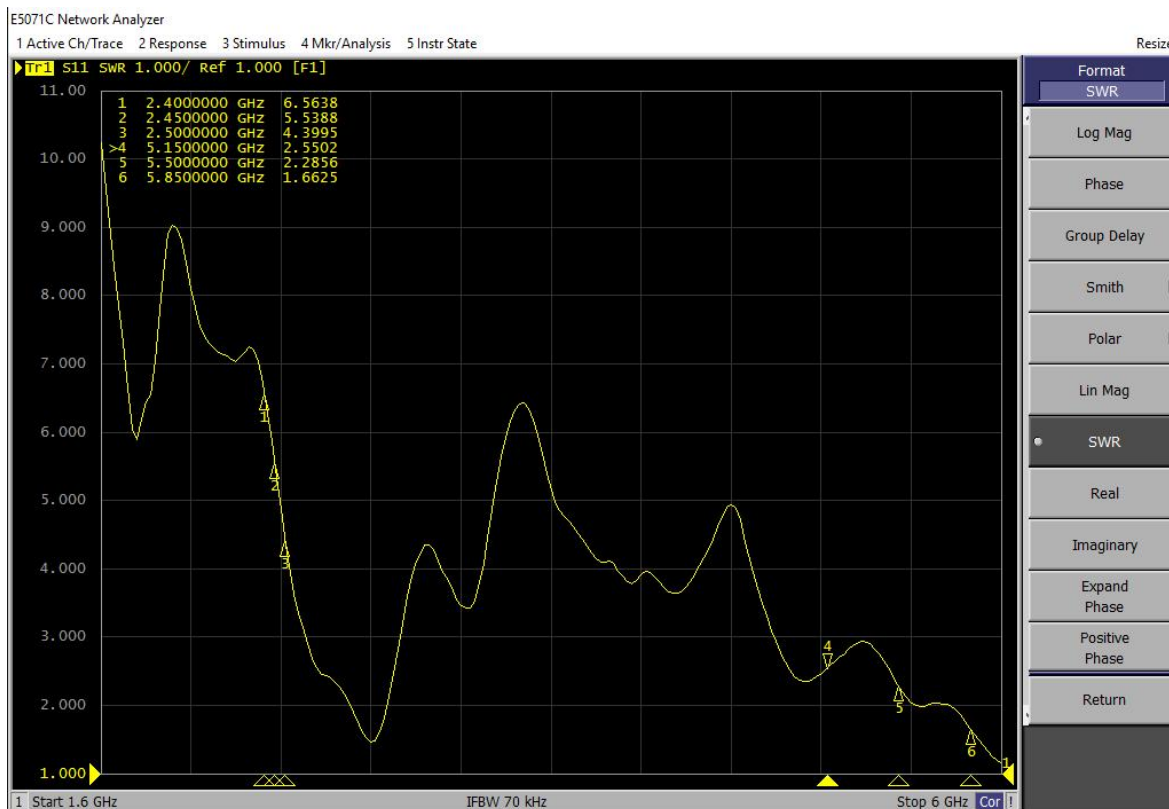
Design Specifications	Typical
Antenna form	2.4&5.8G Built-in antenna (PCB)
working Frequency	2400-2500MHz、5150-5850MHz
Gain	≤2.2dBi
Antenna efficiency	35%
VSWR	≤7.0@2400-2500MHz ≤3.0@5150-5850MHz
Ploriaztion	Linear polarization
Radiation pattern	omnidirectional
impedance	50 Ω
Power handling	33dBm
Interface	IPEX (generation) /RF1.13 Line (black) Line length: 180mm
Overall dimensions	30x15mm
Weight	1.4g
Operatin Temp	-40°C~85°C
Storing Temp	-40°C~85°C

4、IPEX(Generation) specifications

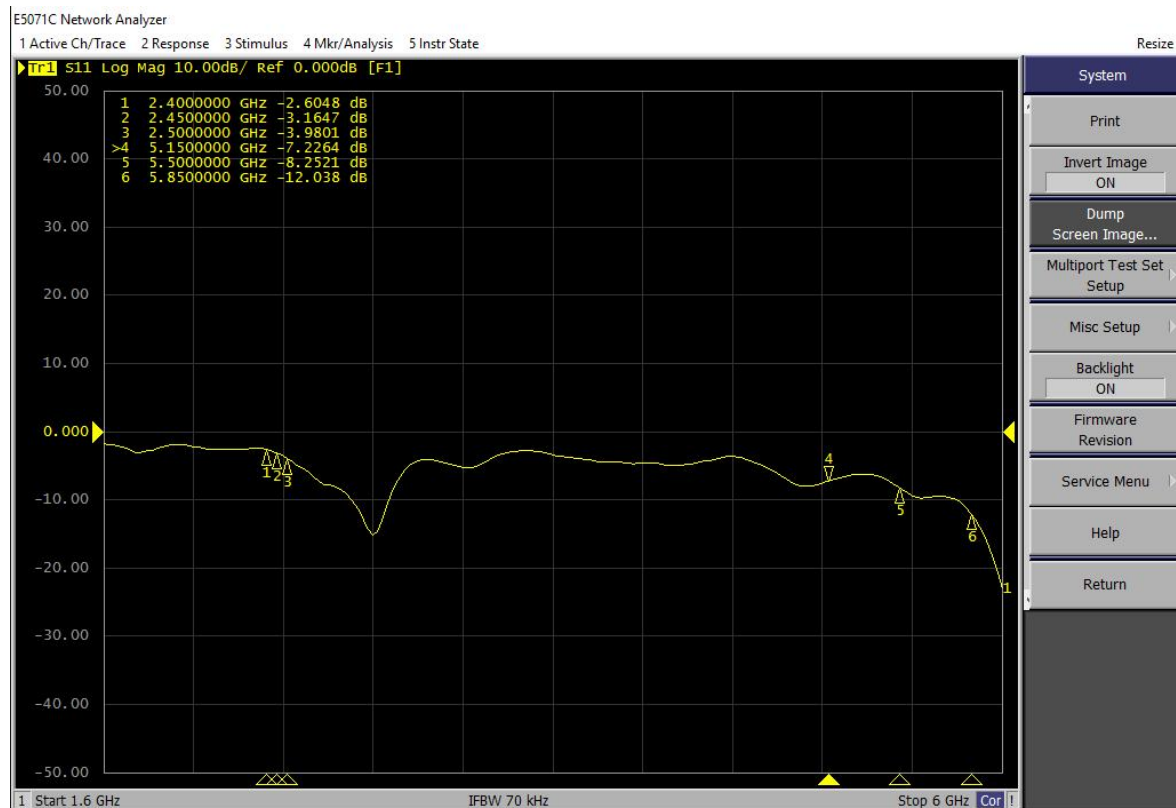


5、Antenna Performance Test (Single antenna)

1、Standing wave ratio diagram



2、return loss diagram



3、Gain and efficiency

Freq.(MHz)	Effi.(dB)	Gain.(dBi)	Effi.(%)
2400	-1.97	1.56	33.5
2420	-1.74	2.17	35.06
2440	-1.7	1.77	34.66
2460	-1.83	0.85	34.56
2480	-2.08	0.45	31.91
2500	-2.43	-0.41	27.11
5150	-3.67	0.03	12.98
5170	-3.56	0.04	14.09
5190	-3.21	0.4	17.75
5210	-3.2	0.38	17.84
5230	-3.05	0.45	19.52
5250	-2.87	0.63	21.62
5270	-2.81	0.76	22.38
5290	-2.71	0.88	23.6
5310	-2.71	0.86	23.54
5330	-2.6	1.07	24.92
5350	-2.63	1.15	24.56
5370	-2.58	1.23	25.19
5390	-2.59	1.28	25.02
5410	-2.56	1.4	25.4
5430	-2.58	1.47	25.24
5450	-2.7	1.37	23.76
5470	-2.52	1.52	25.98
5490	-2.6	1.44	24.98
5510	-2.47	1.61	26.67
5530	-2.37	1.61	27.89
5550	-2.28	1.68	29.13
5570	-2.13	1.76	31.23
5590	-2.22	2.06	29.95
5610	-1.92	2.2	34.26
5630	-1.94	1.84	34
5650	-1.94	1.8	34.02
5670	-1.89	1.81	34.77
5690	-1.9	1.74	34.5
5710	-1.84	1.76	34.42
5730	-1.92	1.66	34.31
5750	-1.84	1.71	34.45
5770	-1.78	1.73	34.31
5790	-1.85	1.68	34.39
5810	-1.72	1.81	34.35
5830	-1.74	1.73	34.97
5850	-1.71	1.75	34.52

4、radiation pattern (3D&2D)

