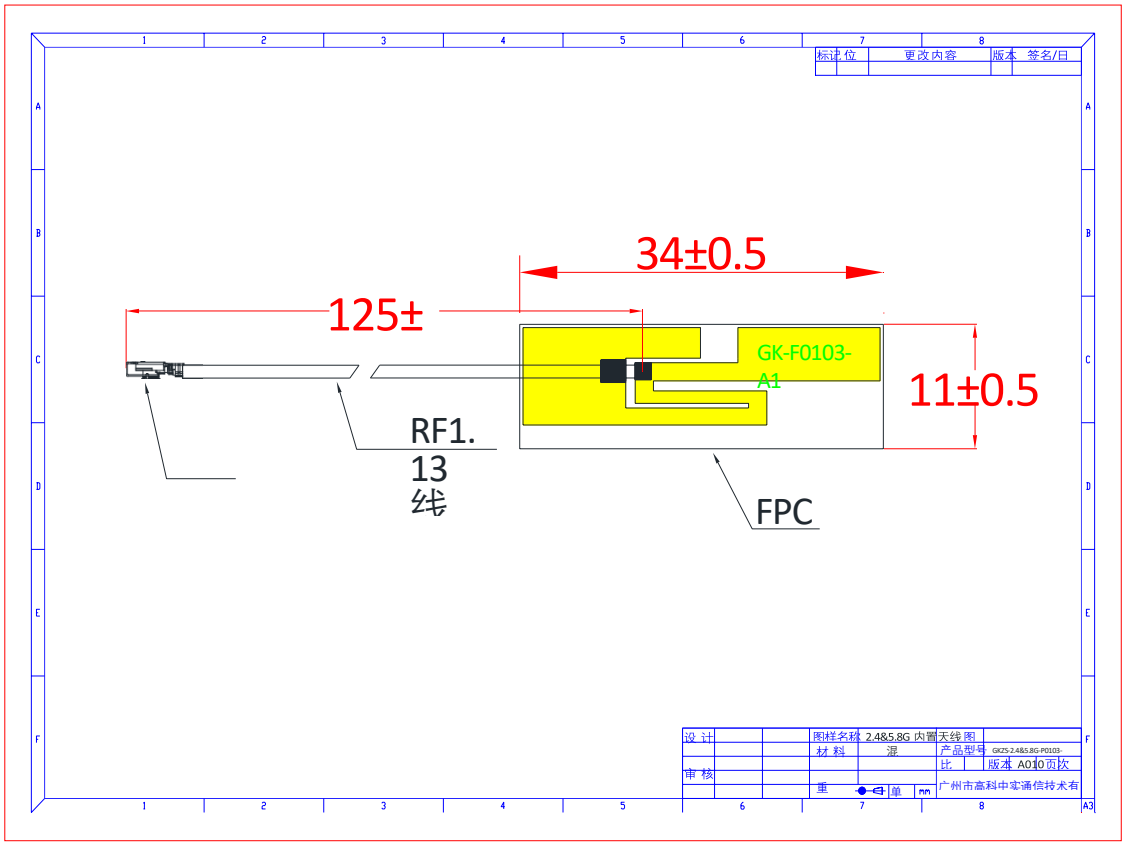
Shining 3D Tech Co., Ltd.

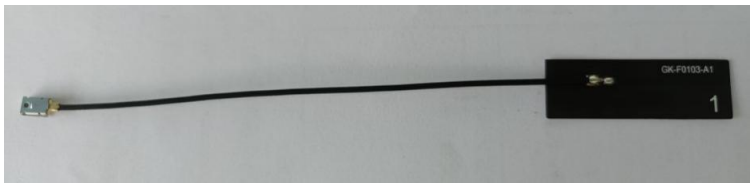
Specification For Approval

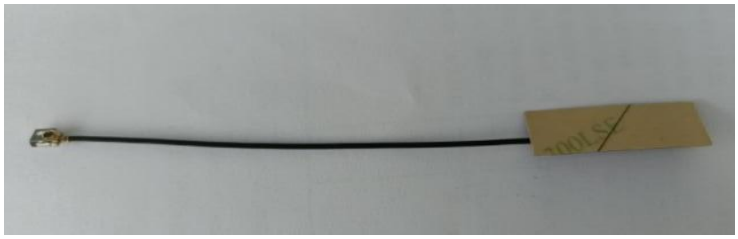
Client:	**Shining 3D Tech Co., Ltd.** No. 1398, Xiangbin Road, Wenyan, Xiaoshan, Hangzhou, Zhejiang, P.R. China
Supplier	Gaoke Ant Co., Ltd. 3rd Floor, Building c, Longdong First Industrial Zone, No. 163, Yinglong Road, Tianhe District, Guangzhou City, Guangdong China
Customer P/N	EE0000869
Production Name	Internal antenna
Production Number	GKZS-2.4&5.8G-F0103-RF1.13I-125A

Construction design:



Photos

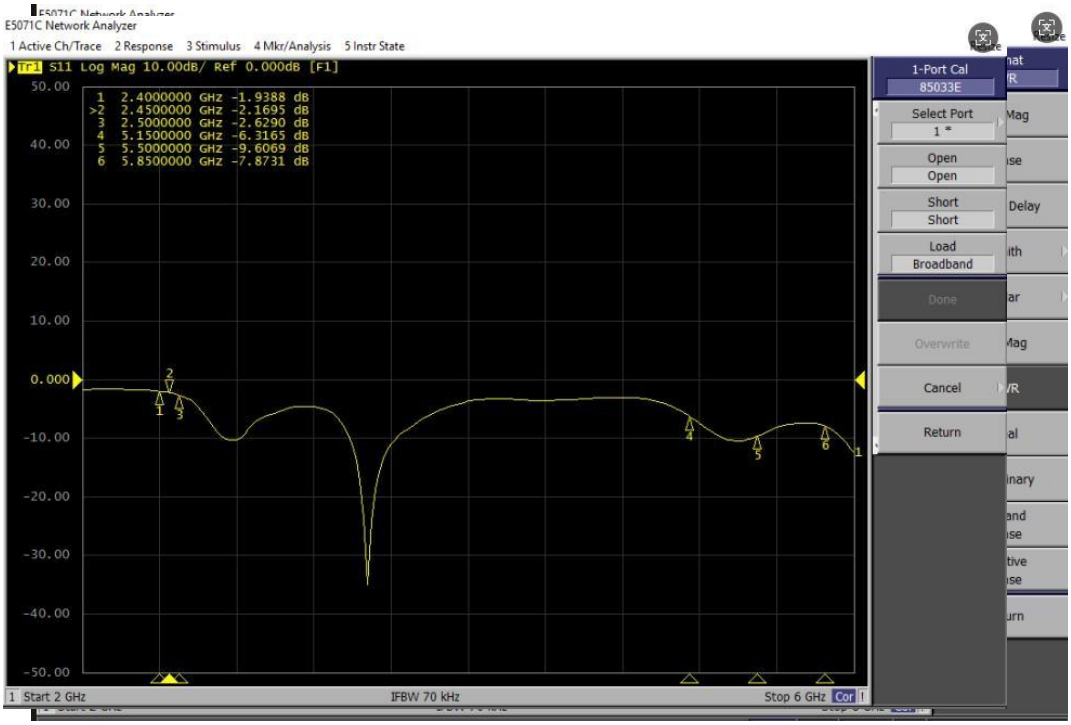




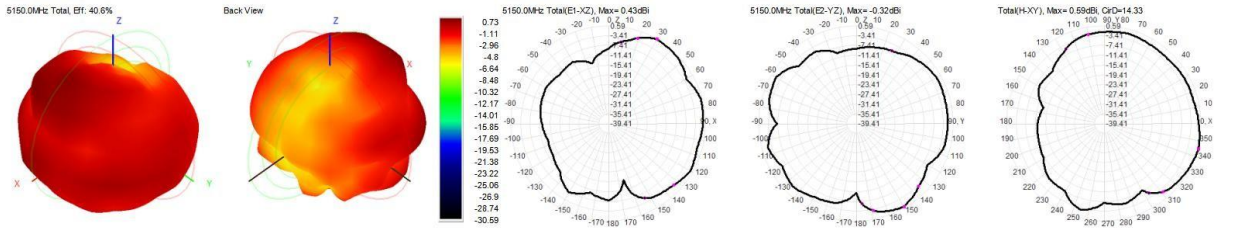
Technical parameters

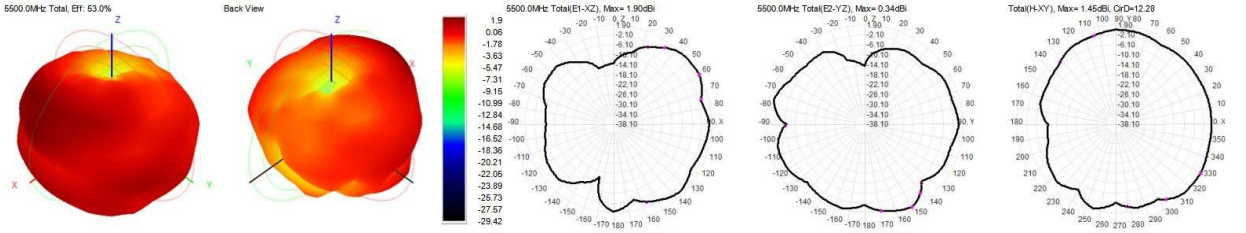
Design Specifications	Typical
Antenna Type	internal antenna (FPC）
working Frequency	5150-5850MHz
Gain	1.77dBi Max@5150-5250MHz 3.08dBi Max@5725-5850MHz
Antenna efficiency	≥35%@5150-5850MHz
VSWR	≤3.0@5150-5850MHz
Polarization	H/V
Radiation pattern	Omni
impedance	50Ω
Power handling	33dBm
Interface	IPEX / RF1.13 cable 125mm
Overall dimensions	34x11mm
Weight	0.5g
Operating Temp	-40℃~85℃

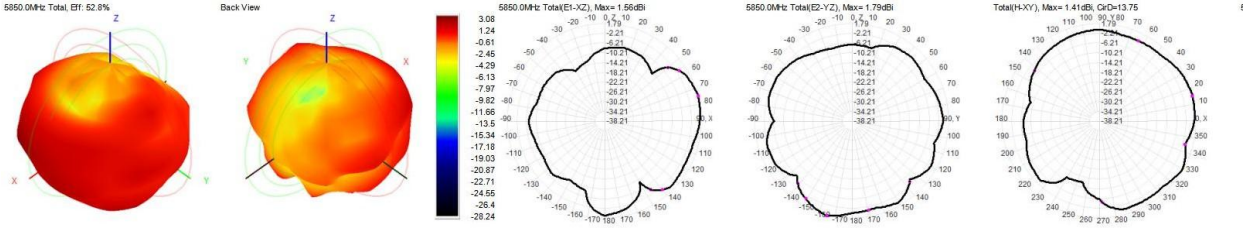
Standing wave ratio & return loss diagram



Radiation pattern (3D&2D)







Antenna Gain table:

频率 Frequency (MHz)	效率 Efficiency (dBi)	增益 Gain (dBi)	效率 Efficiency (%)
5150.0	-3.91	0.73	40.65
5200.0	-3.26	1.77	47.18
5250.0	-3.22	1.54	47.60
5300.0	-3.12	1.77	48.81
5350.0	-2.80	1.97	52.52
5400.0	-3.04	1.75	49.66
5450.0	-3.06	1.49	49.47
5500.0	-2.76	1.90	53.00
5550.0	-2.83	2.10	52.14
5600.0	-3.01	2.41	50.04
5650.0	-3.36	1.82	46.11
5700.0	-3.19	2.45	47.93
5750.0	-3.33	1.86	46.47
5800.0	-3.48	1.50	44.88
5850.0	-2.77	3.08	52.79