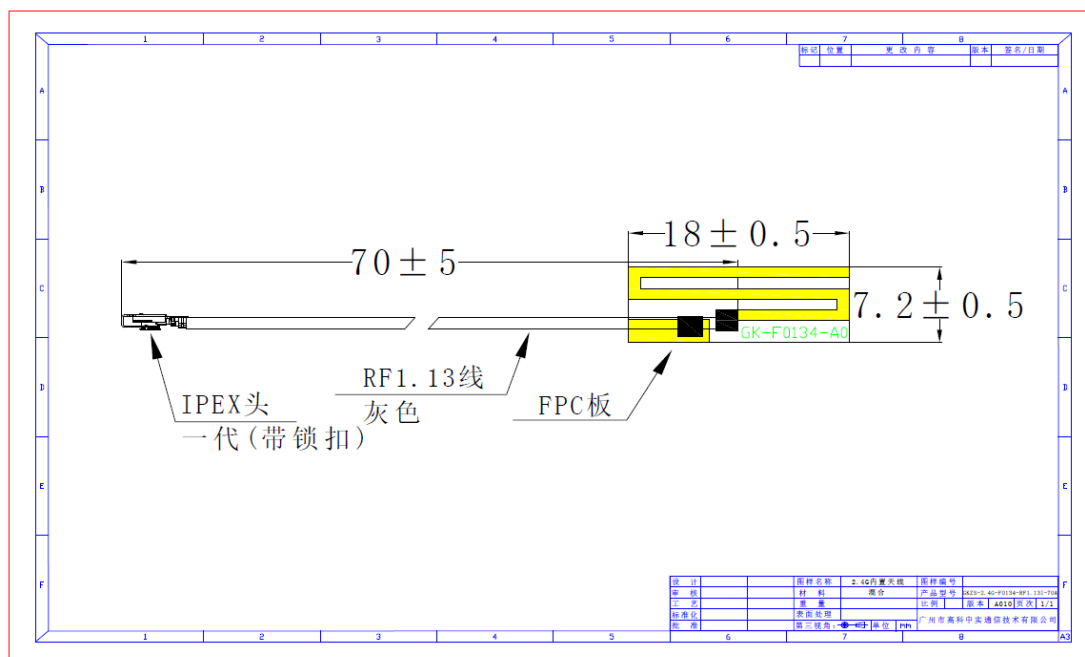


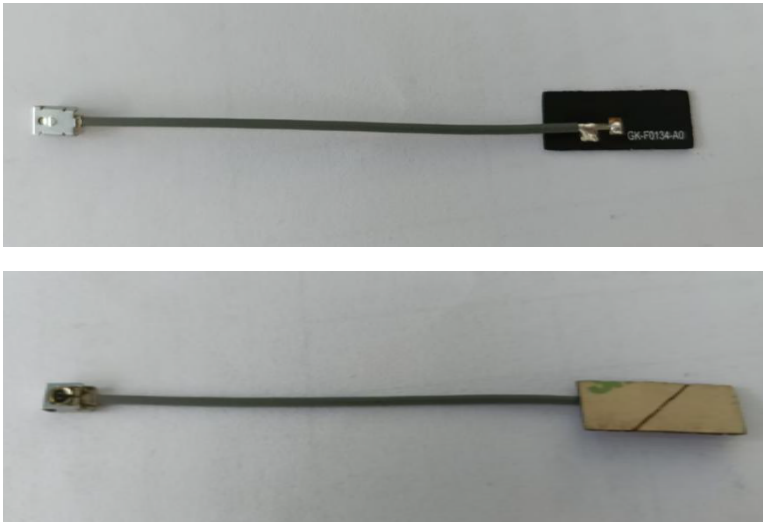
Specification For Approval

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	EE0000871
Production Name	2.4G Internal antenna
Production Number	GKZS-2.4G-F0134-RF1.13I-70A

Construction design



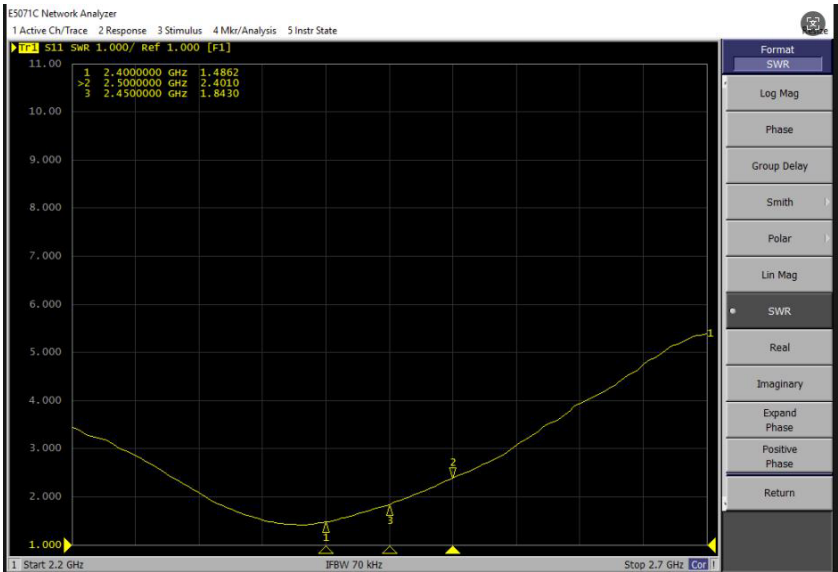
Photos

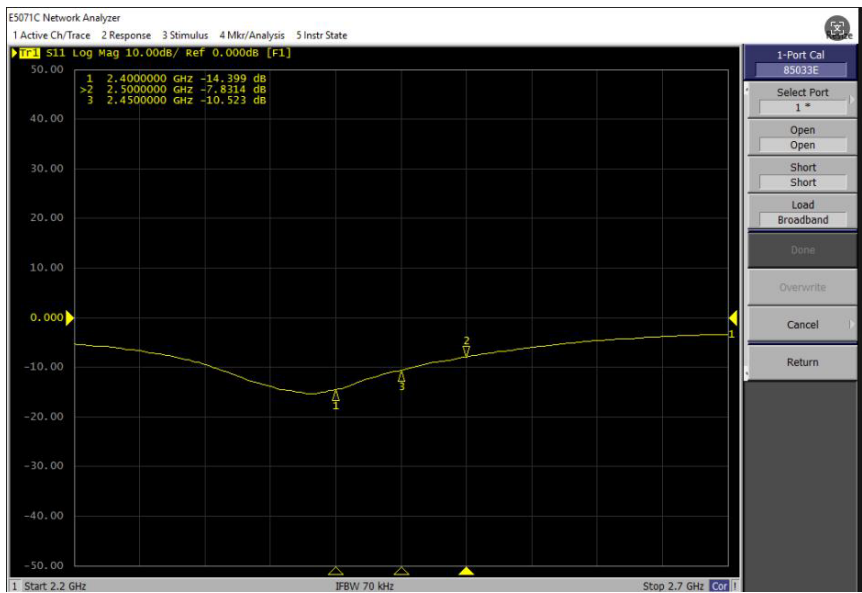


Technical parameters

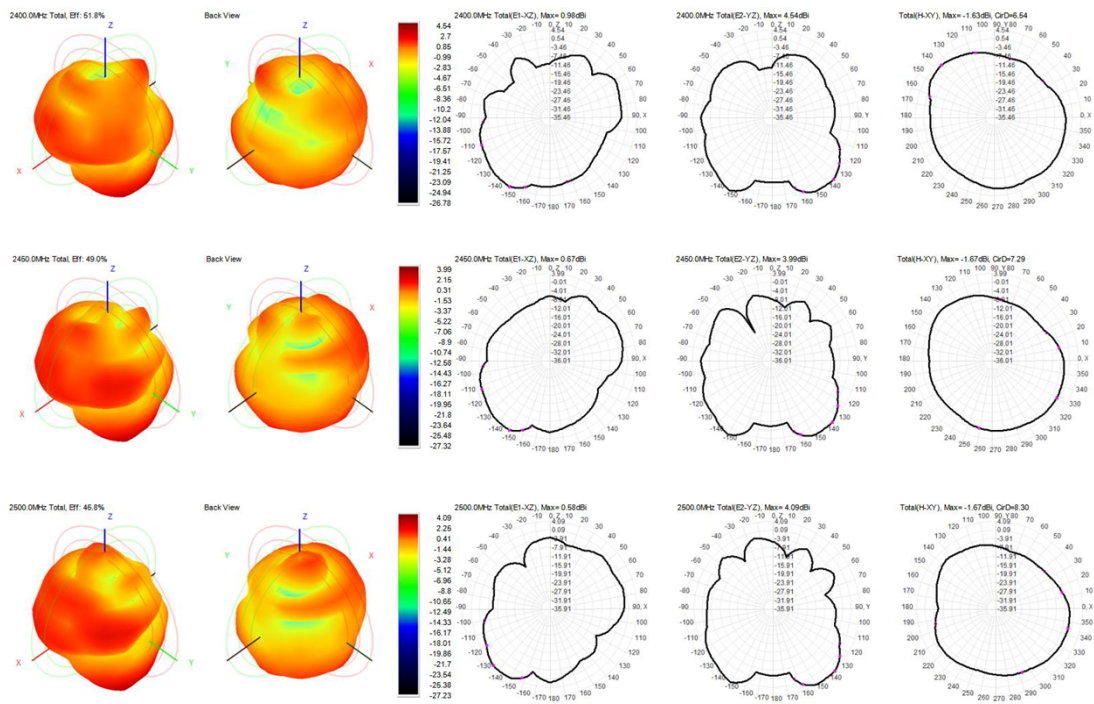
Design Specifications	Typical
Antenna Type	internal antenna (FPC)
working Frequency	2400-2500MHz
Gain	4.64dBi Max@2400-2500MHz
Antenna efficiency	≥ 40%@2400-2500MHz
VSWR	≤2.5
Polarization	H/V
Radiation pattern	Omni
impedance	50Ω
Power handling	33dBm
Interface	IPEX / RF1.13 cable 70mm
Overall dimensions	18x7.2mm
Weight	0.5g
Operating Temp	-40°C~85°C

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 (%)
2400.0	-2.86	4.54	51.76
2410.0	-2.83	4.39	52.08
2420.0	-2.68	4.42	54.01
2430.0	-2.88	4.12	51.51
2440.0	-2.49	4.57	56.30
2450.0	-3.09	3.99	49.04
2400.0	-2.86	4.54	51.76
2410.0	-2.83	4.39	52.08
2420.0	-2.68	4.42	54.01
2430.0	-2.88	4.12	51.51
2440.0	-2.49	4.57	56.30