

Antenna Data Sheet

型号/Model: AB-FPC1807

适用频率/Frequency: 2.4GHz/BT/WIFI/ZigBee

Manufacturer: Shenzhen Aiba Technology Co., Ltd.
Address: Room 909, No. 232 Baoshi East Road, Guantian Community, Shiyan Street,
Bao'an District, Shenzhen City, Guangdong, China

一、产品简介(Product Introduction)

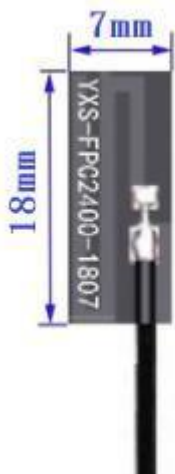
AB-FPC1807 is a flexible FPC built-in antenna that operates at 2.4-2.5GHz with adhesive backing and coaxial cable. FPC antenna size: 18 * 7mm; Thickness: 0.15mm (including backing adhesive).

This antenna is suitable for electronic products and communication devices in various 2.4G frequency bands (such as WIFI, Bluetooth, ZigBee, ISM, etc.).

二、规格参数(Specifications)

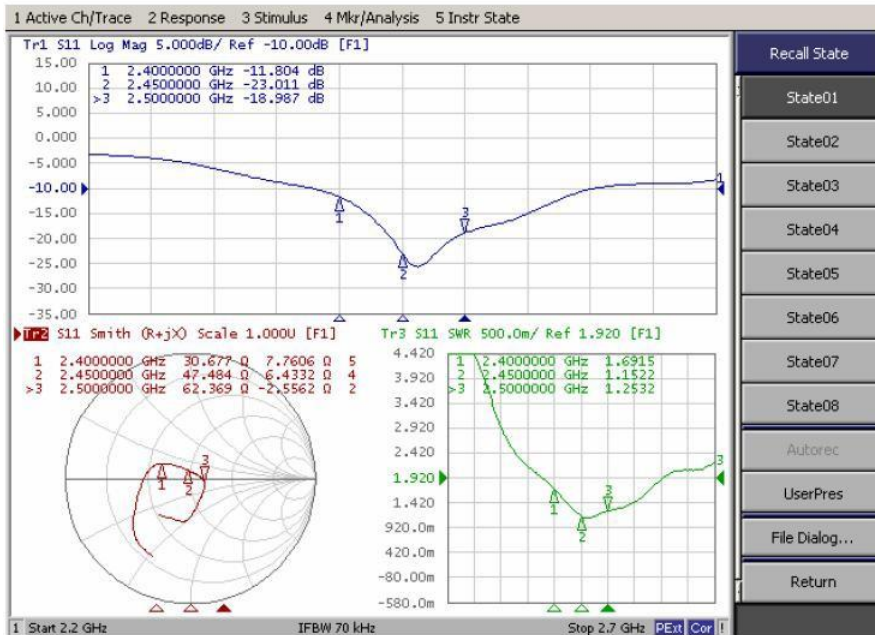
Electrical parameters	
中心频率(Center Frequency)	2450MHz
天线带宽(Frequency Band)	2400-2500MHz
天线增益(Max. Gain)	2dBi
天线效率(Antenna Efficiency)	80%
驻波比(VSWR)	<1.5
极化方向(Polarization direction)	Vertical polarization
辐射方向(Radiation direction)	omnidirectional
输入阻抗(Input impedance)	50 Ω
最大功率(Max. Power)	5W
Other parameters	
天线体尺寸(Dimension)	18*7*0.15mm
天线体材料(Antenna material)	FPC
接口规格(interface spec)	IPEX1, 3, 4 generations/welding interface
工作温度(working temperature)	-40℃~ +80℃

尺寸(Dimension):



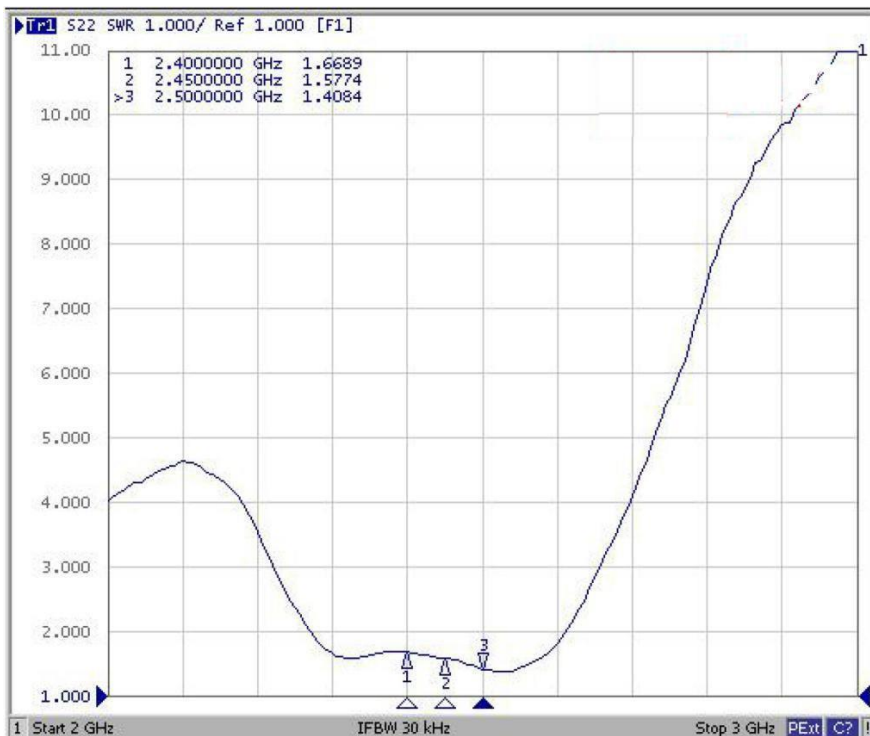
三、天线测试环境(Antenna testing environment)

Return loss:

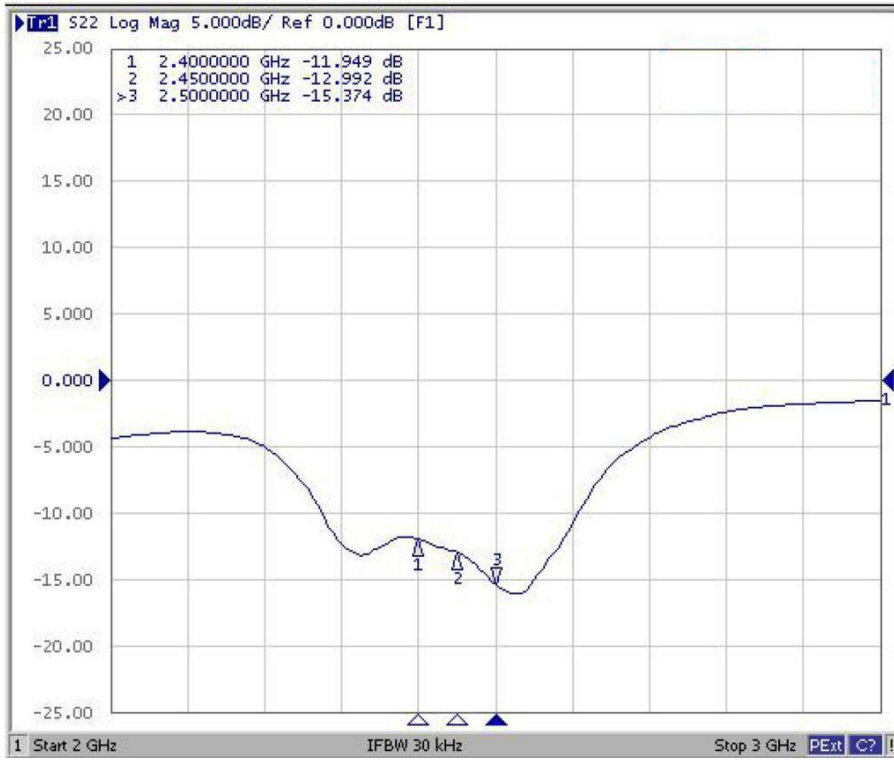


四、天线特性(Antenna characteristics)

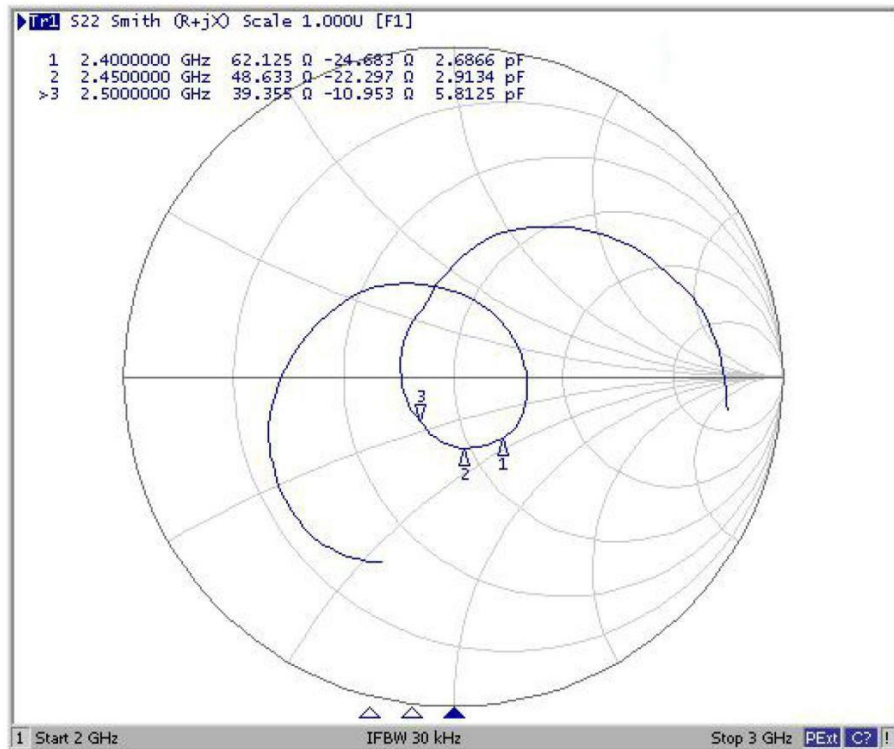
驻波比 (VSWR)



回波损耗 (Return Loss)



史密斯圆图 (Smith Chart)



五、注意事项(Notes)

1. The antenna should be attached to the surface of the insulation inside the product, please do not attach the antenna to the metal surface.
2. The distance between the antenna and the metal conductor should be no less than 5mm, and the larger the distance between the antenna and the metal conductor, the better. The PCB board, as a conductor, also needs to be kept as far away as possible from the antenna.
3. Do not wrap the coaxial line of the antenna around the antenna body, otherwise it will cause a decrease in antenna performance.
4. The impedance of the antenna may be offset due to structural differences between different products, and a π - type impedance matching device can be reserved for debugging and improvement. If you encounter such a situation, you can contact our company for technical support.