



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## SPECIFICATION

- Part No. : PC27.07.0100A
- Product Name : TheStripe™ 850/900/1800/1900MHz GSM PCB  
Antenna  
w/100mm IPEX 1.13mm diameter MHF II connector
- Feature : 34mm\*7mm\*0.8mm  
Compatible with Hirose U.FL



## I. Introduction

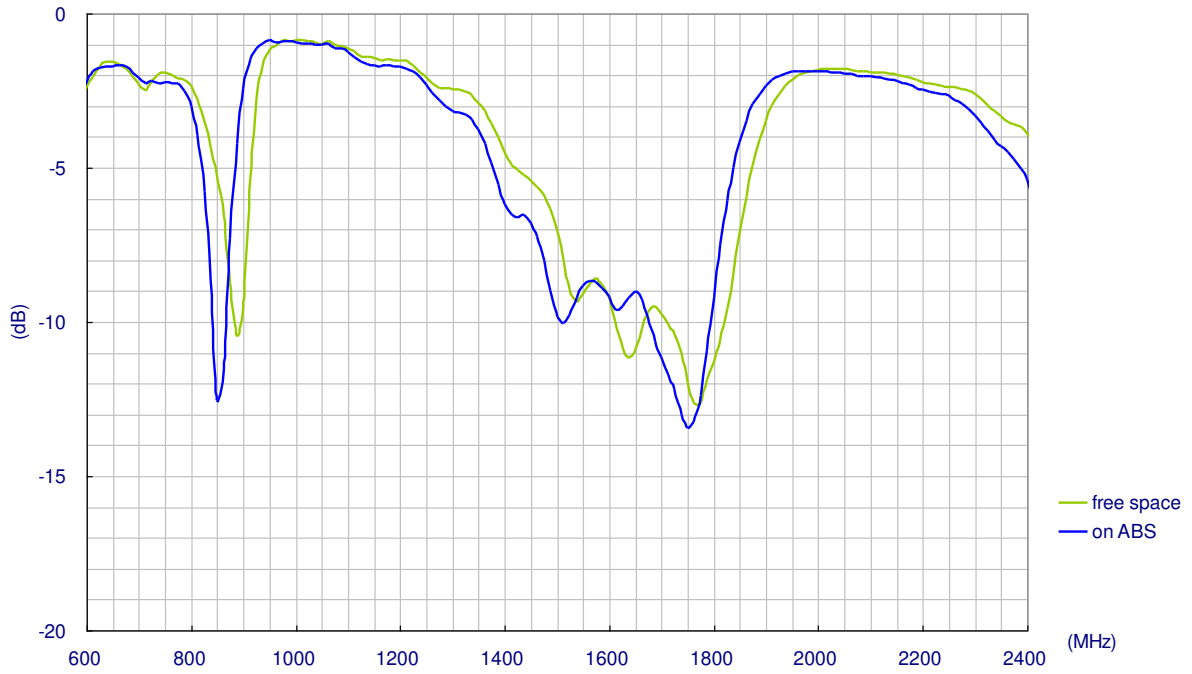
This miniaturized low profile PCB antenna is based on smart TheStripe™ antenna technology. It consists of a PCB antenna and 1.13mm co-axial cable with Ipex MHFII (Hirose U.FL) connector.

## II. Specification

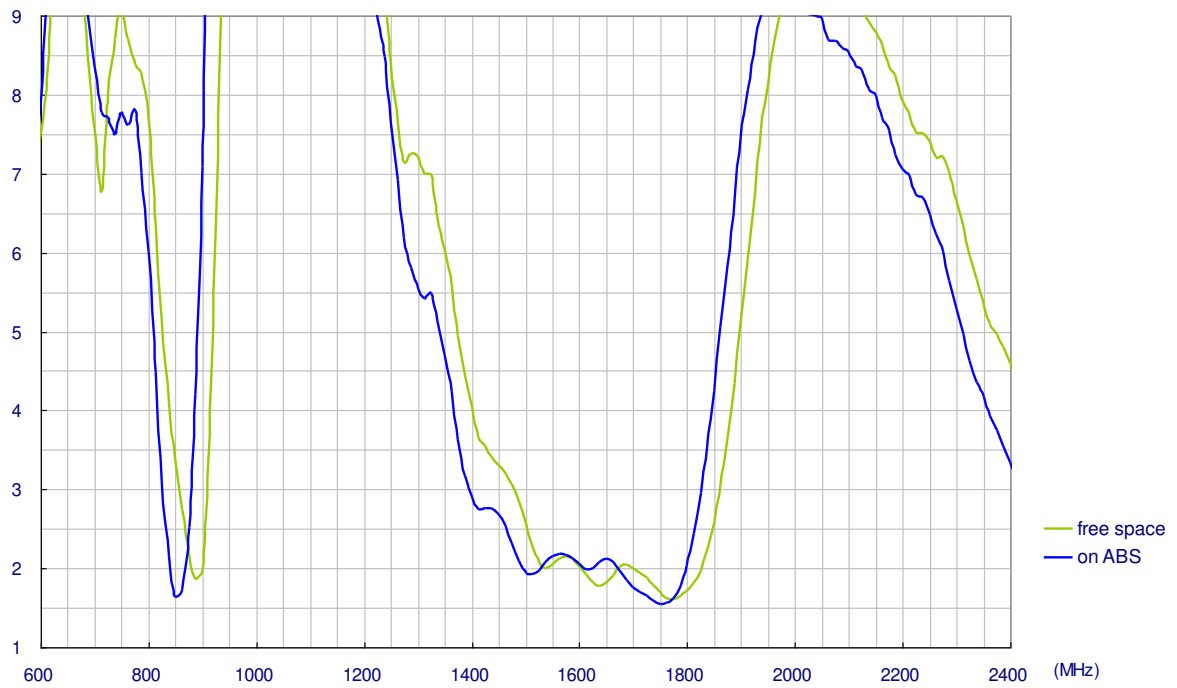
ELECTRICAL				
Frequency (MHz)	824 ~ 896	880~960	1710~1880	1850~1990
Free Space Peak Gain	-4.1dBi	-13dBi	0.6dBi	-0.4dBi
Free Space Efficiency	13%	8%	51%	11%
Impedance	50Ω			
Polarization	Linear			
Radiation Pattern	Omni			
MECHANICAL				
Antenna Dimensions	34 x 7 x 0.8mm			
Cable	1.13 co-axial			
Connector	Ipex MHF II			
ENVIRONMENTAL				
Operation Temperature	-40°C to 85°C			
Humidity	Non-condensing 65°C 95% RH			

### III.S11 Property

#### Return Loss

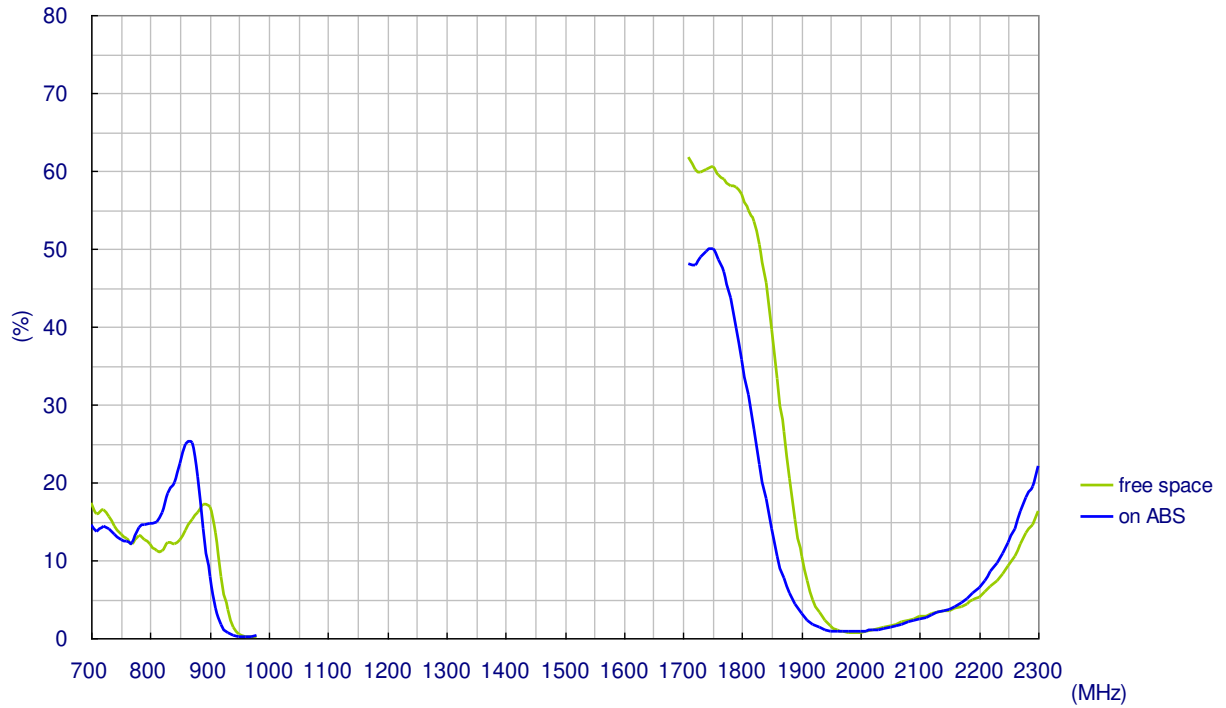


#### VSWR

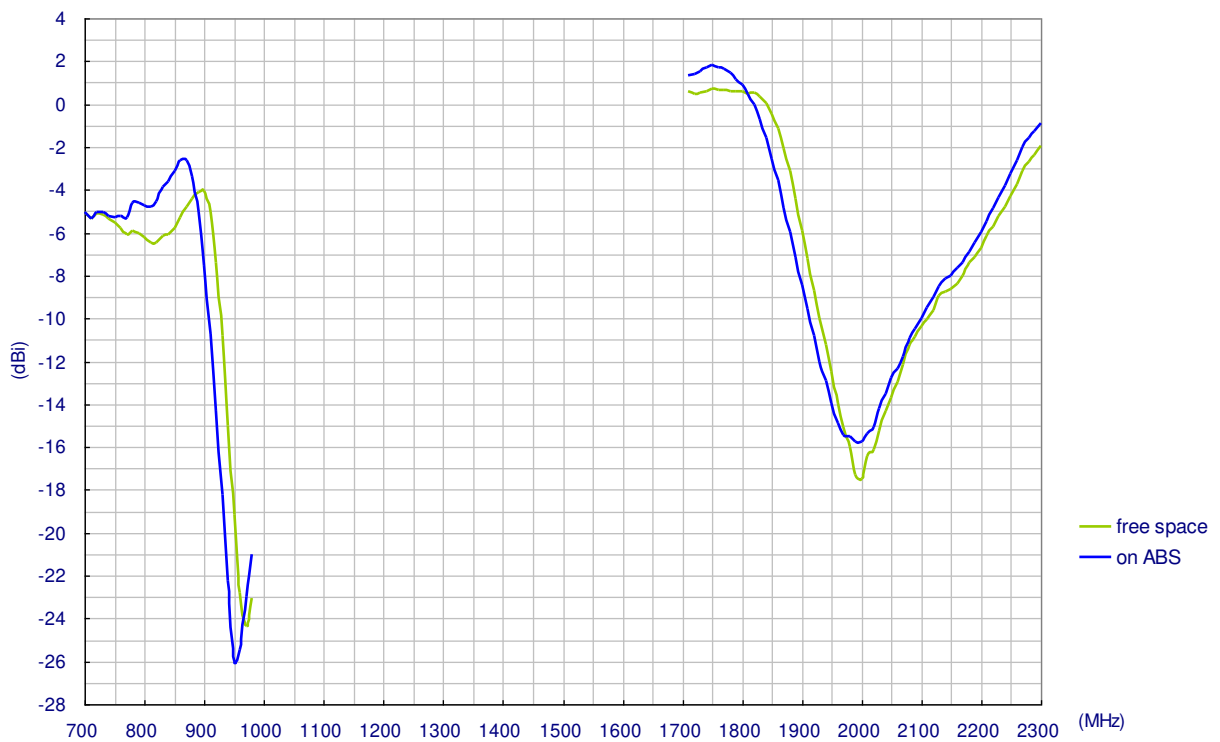


## IV. 3D Radiation Property

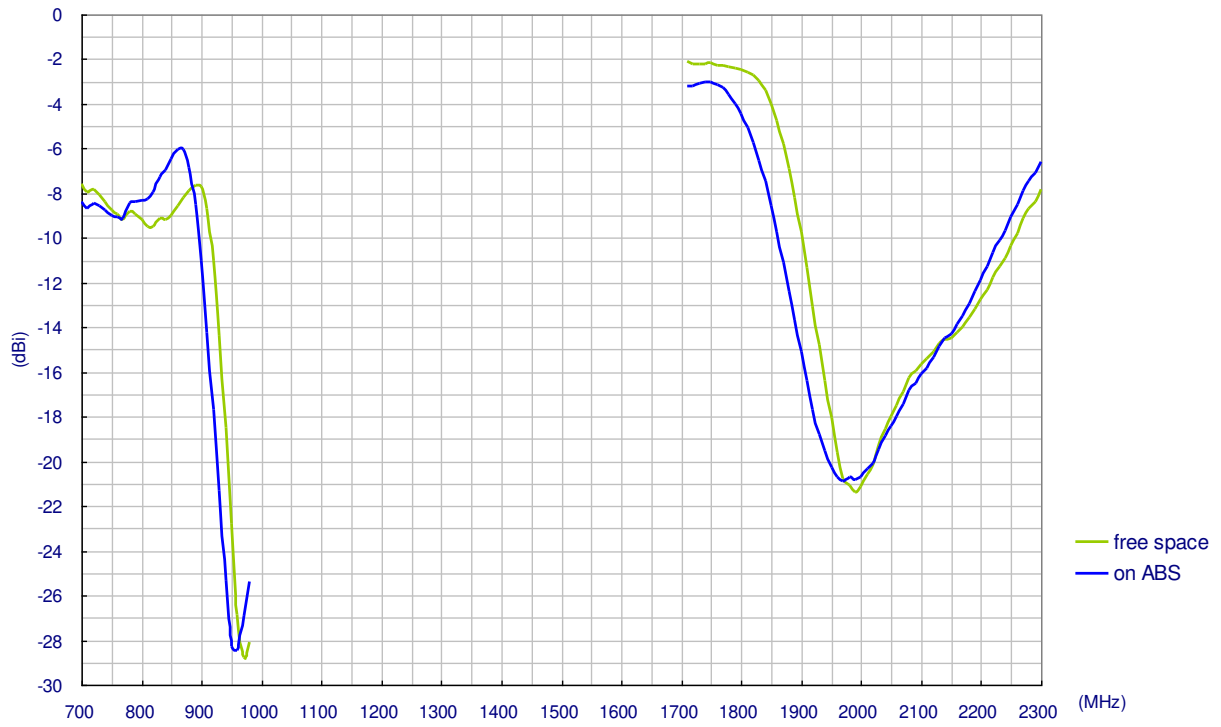
### IV.1. Efficiency



### IV.2. Peak Gain

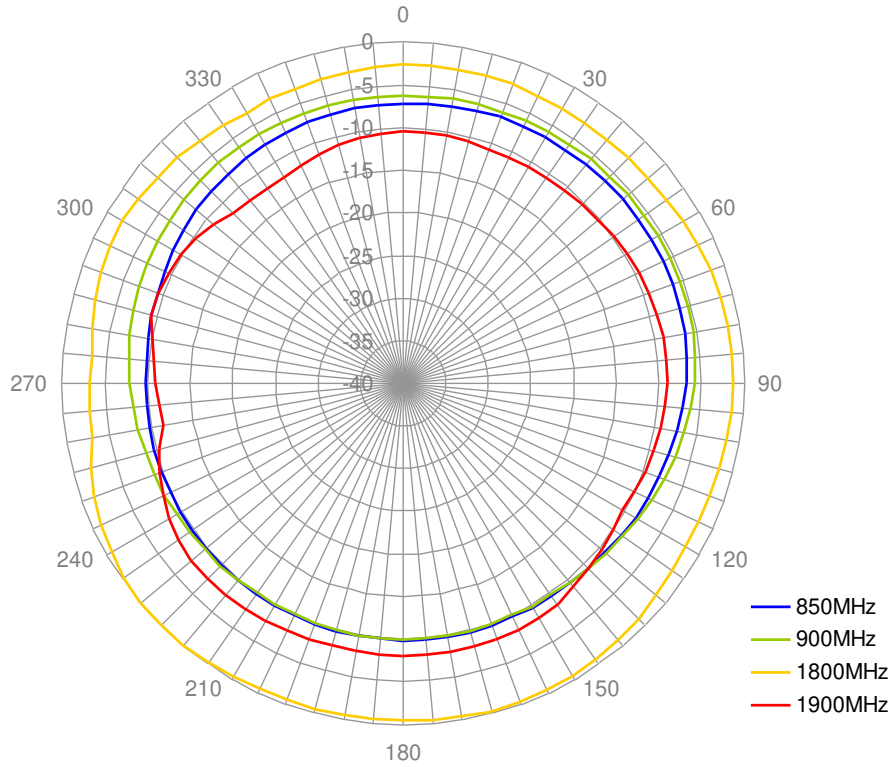


### IV.3. Average Gain

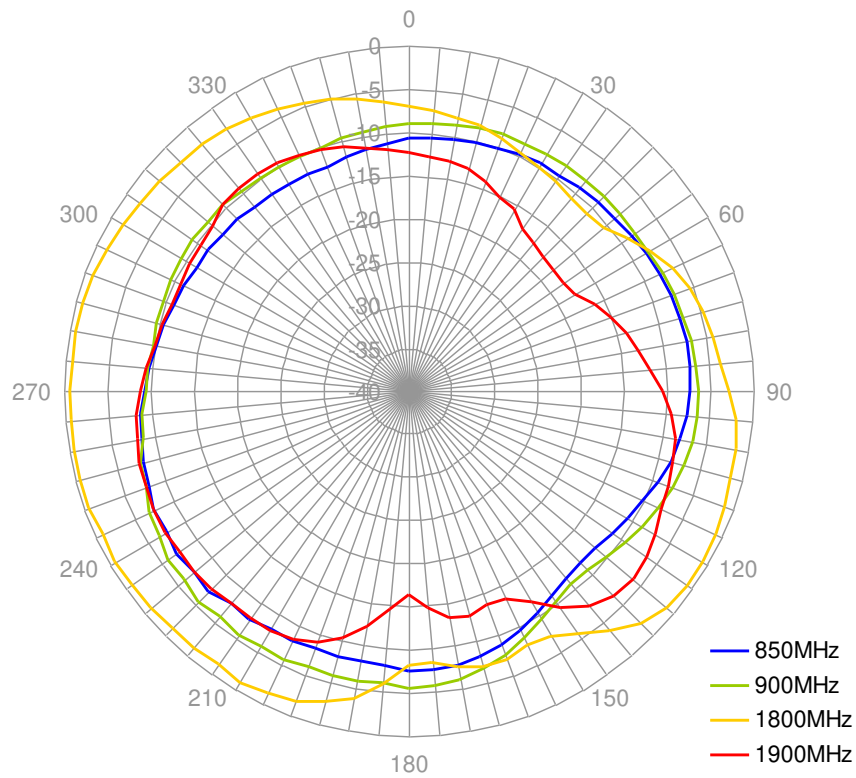


## IV.4. Free Space Radiation Pattern

### E-plane Radiation

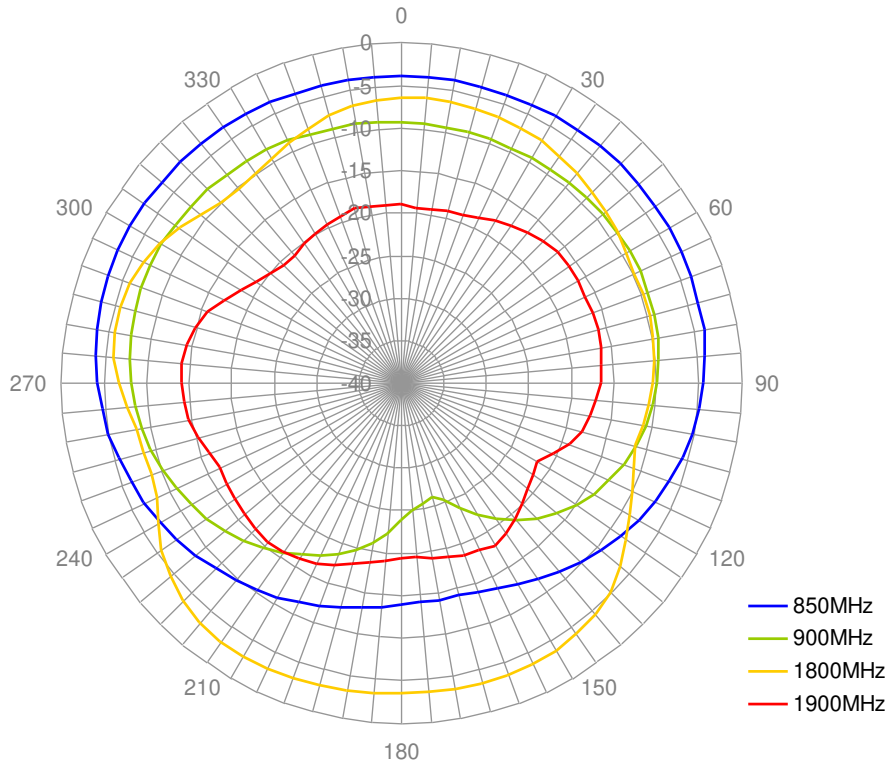


### H-plane Radiation

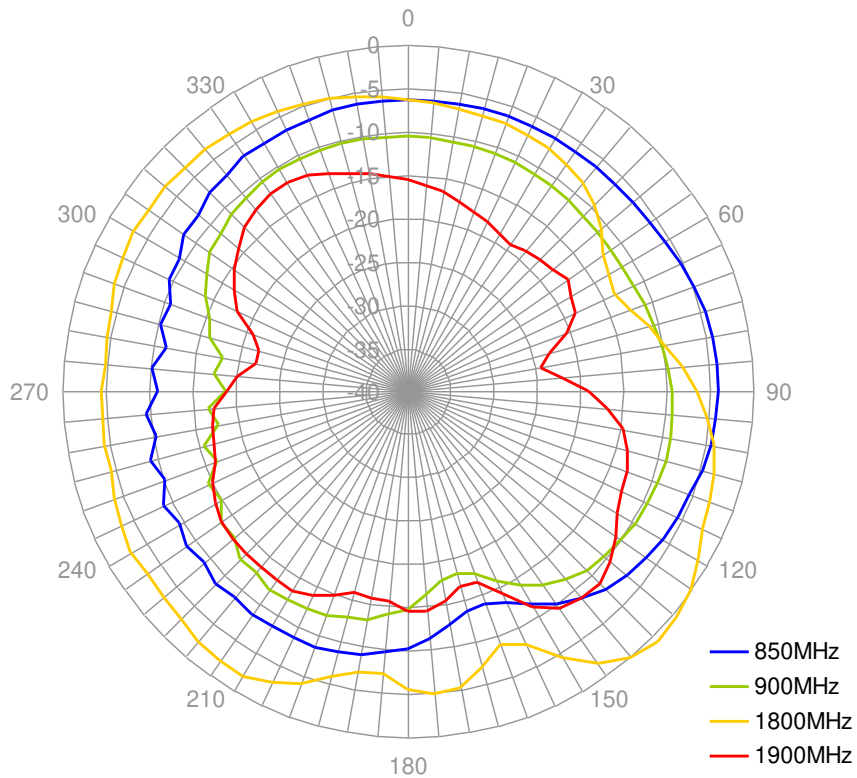


## IV.5. Radiation Pattern of PC27 on ABS

### E-plane Radiation

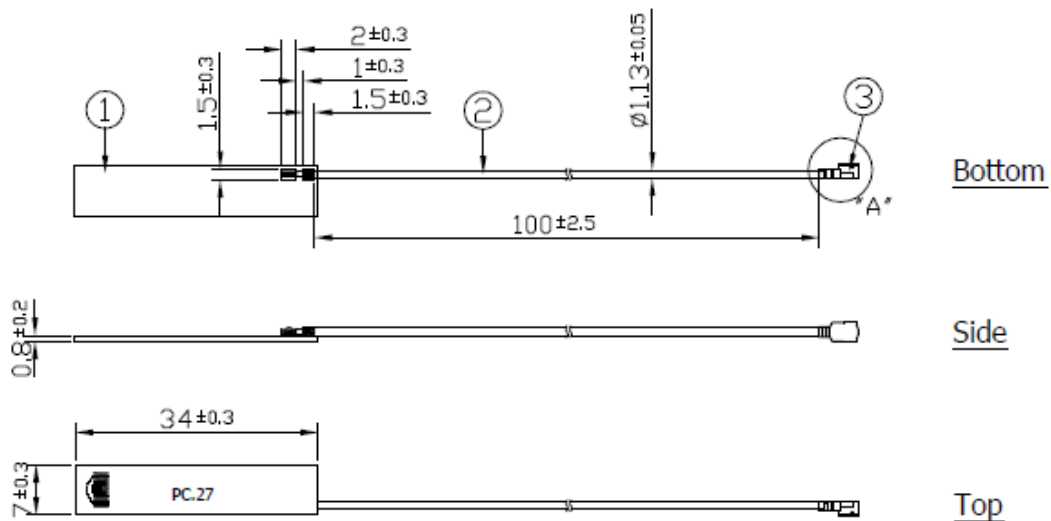
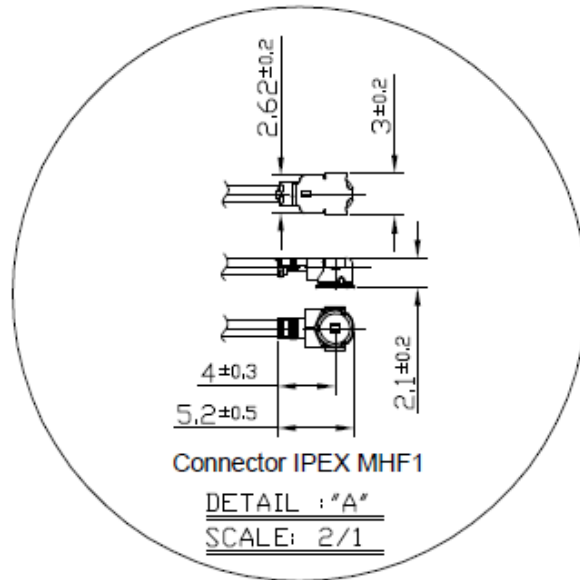


### H-plane Radiation





## V. Drawing



	Name	Material	Finish	QTY
1	PC27 PCB	FR4.08t	Black	1
2	1.13 Coaxial Cable	FEP	Black	1
3	IPEX MHF1	Brass	Gold	1

All material must be RoHS compliant.  
 Open/Short QC, VSWR required.