

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

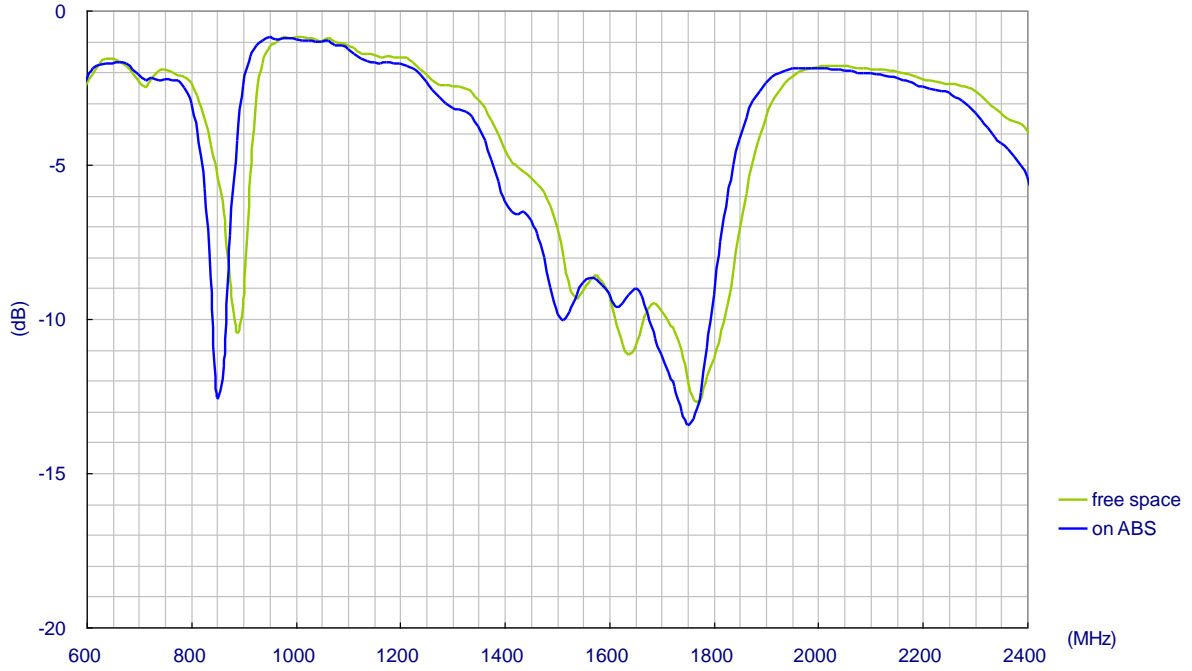
This miniaturized low profile PCB antenna is based on smart TheStripe™ antenna technology. It consists of a PCB antenna and 1.13mm co-axial cable with Ipex MHFII (Hirose U.FL) connector.

II. Specification

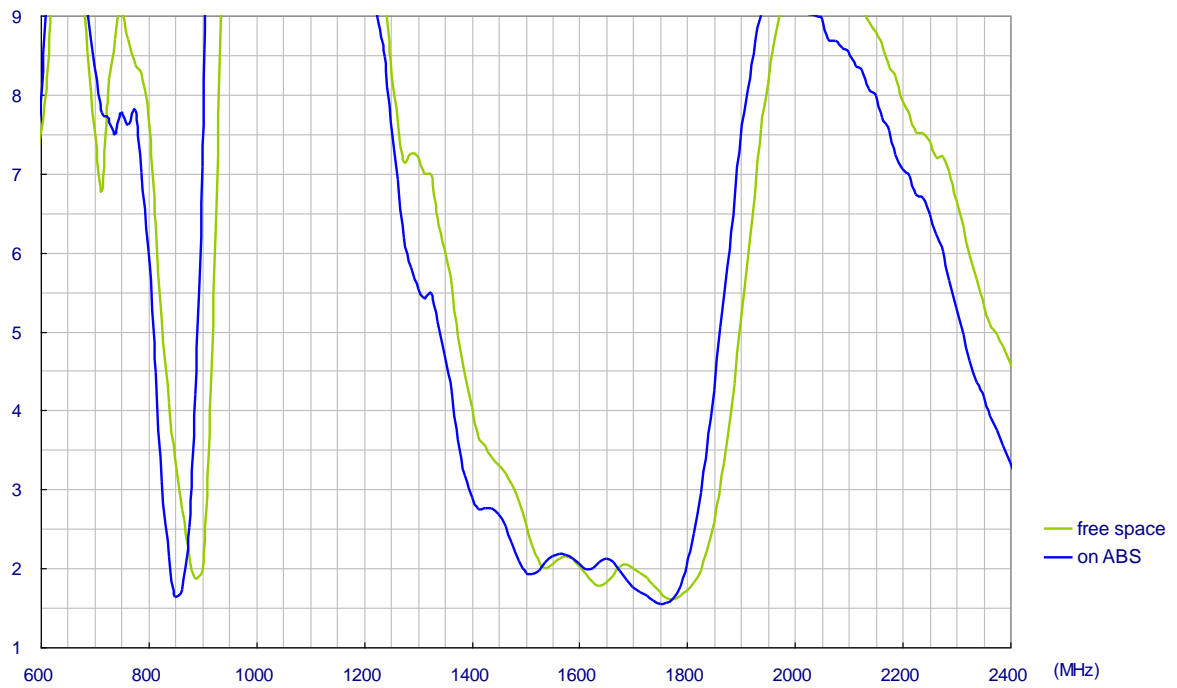
ELECTRICAL				
Frequency (MHz)	824 ~ 896	880~960	1710~1880	1850~1990
Free Space Peak Gain	-4.1dBi	-13dBi	0.6dBi	-0.4dBi
Free Space Efficiency	13%	8%	51%	11%
Impedance	50Ω			
Polarization	Linear			
Radiation Pattern	Omni			
MECHANICAL				
Antenna Dimensions	34 x 7 x 0.8mm			
Cable	1.13 co-axial			
Connector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

III.S11 Property

Return Loss

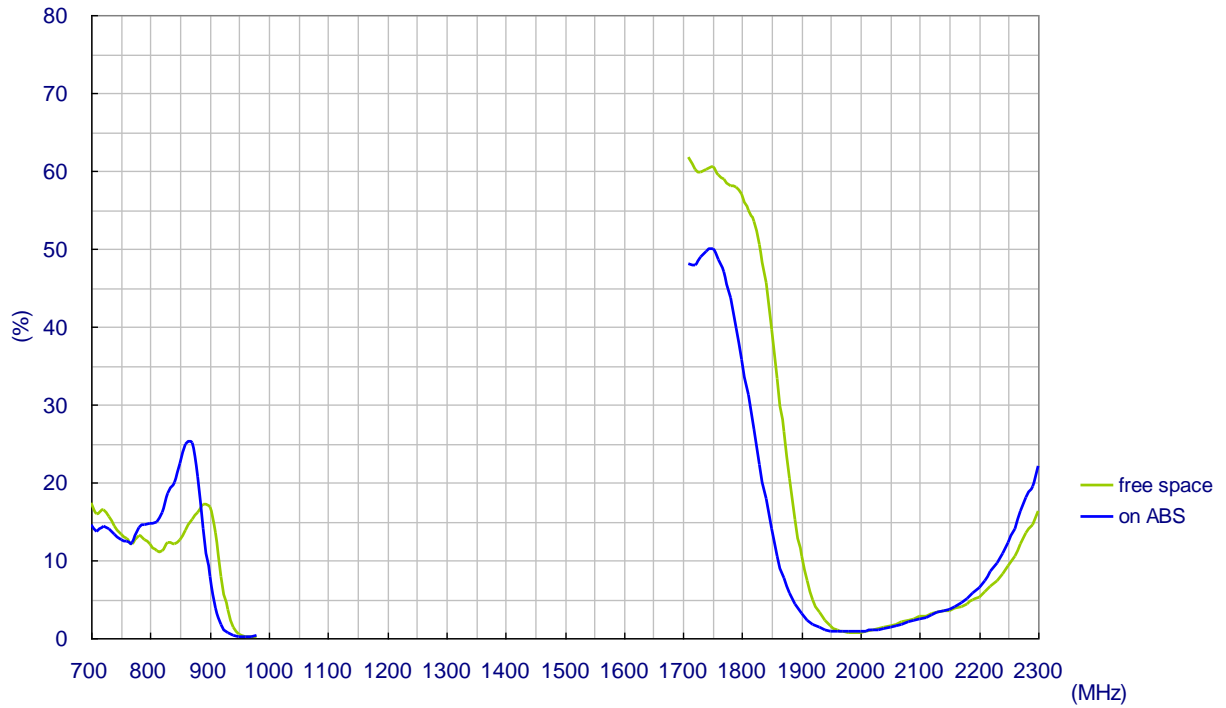


VSWR

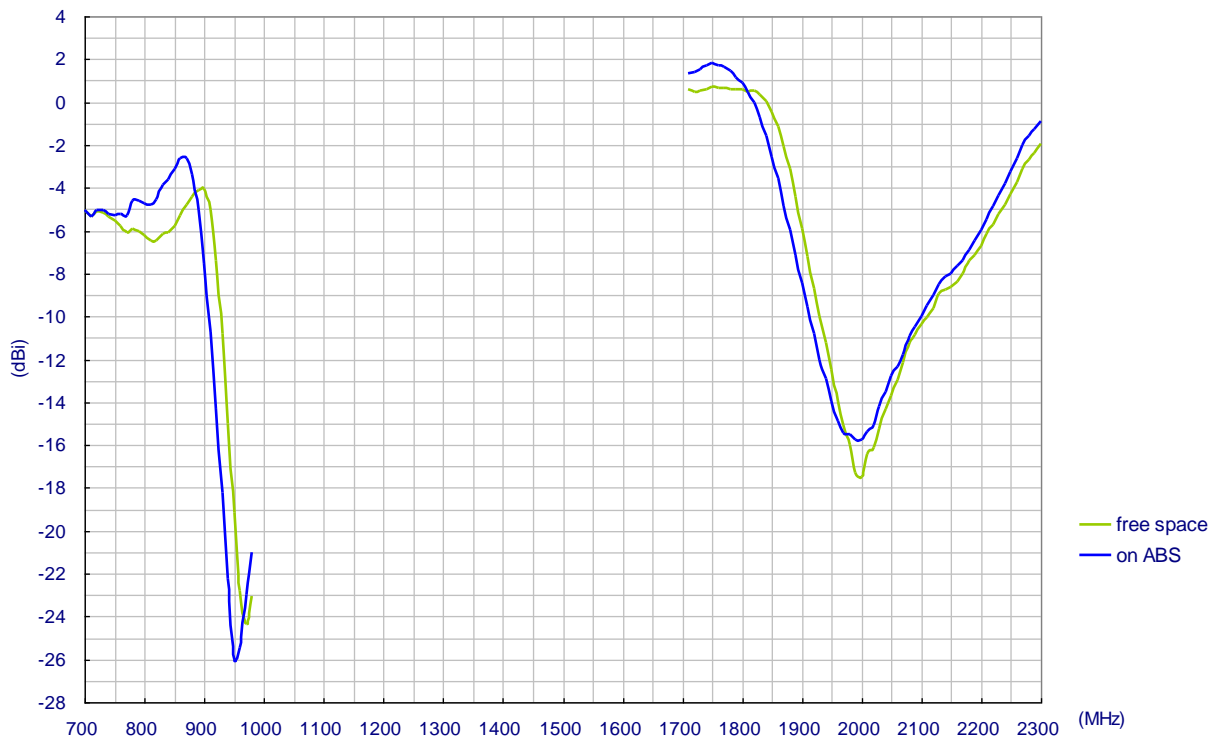


IV. 3D Radiation Property

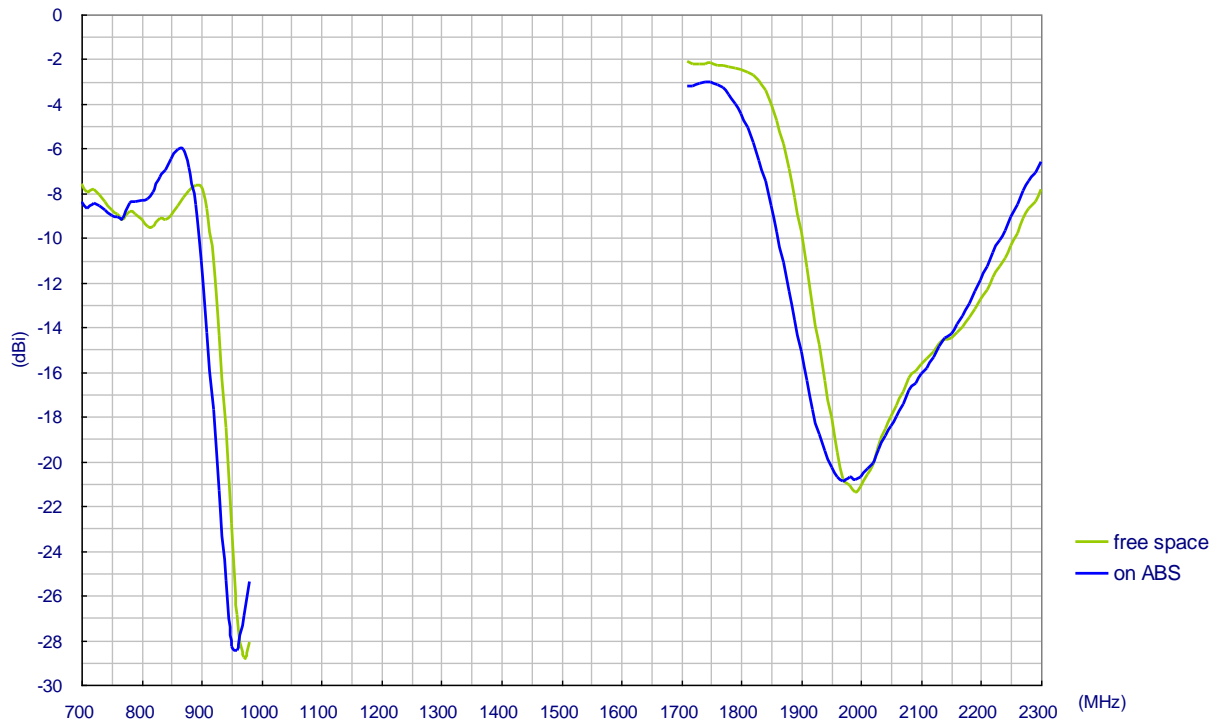
IV.1. Efficiency



IV.2. Peak Gain

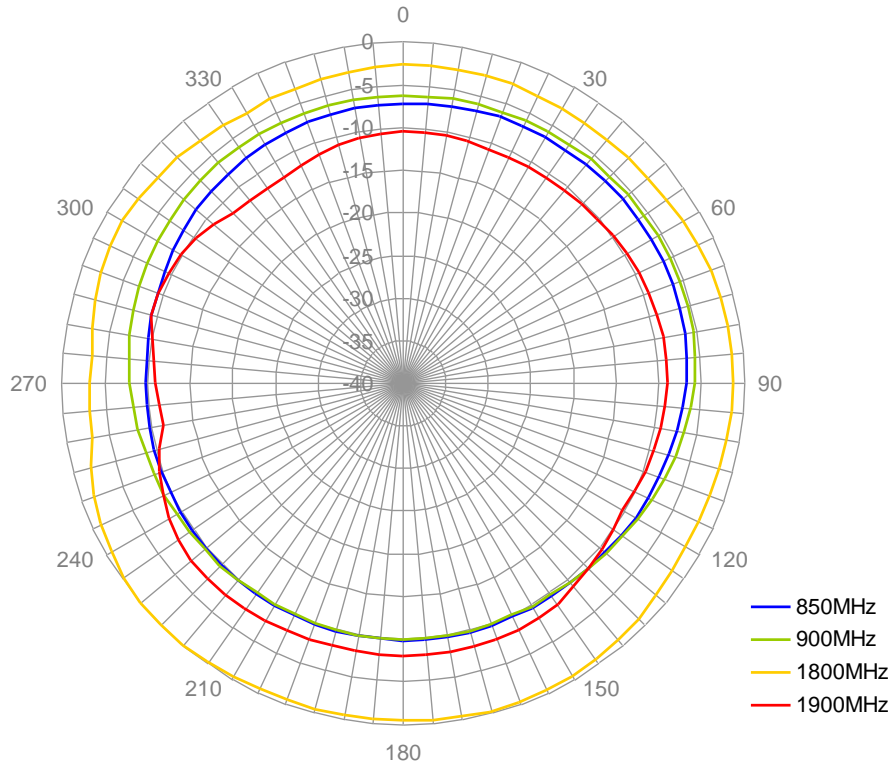


IV.3. Average Gain

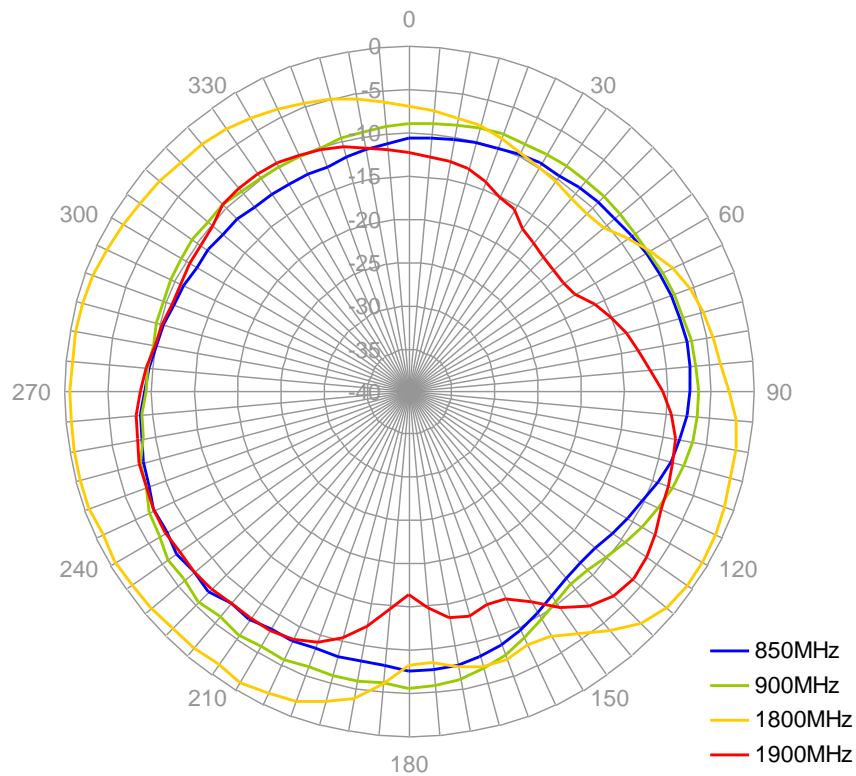


IV.4. Free Space Radiation Pattern

E-plane Radiation

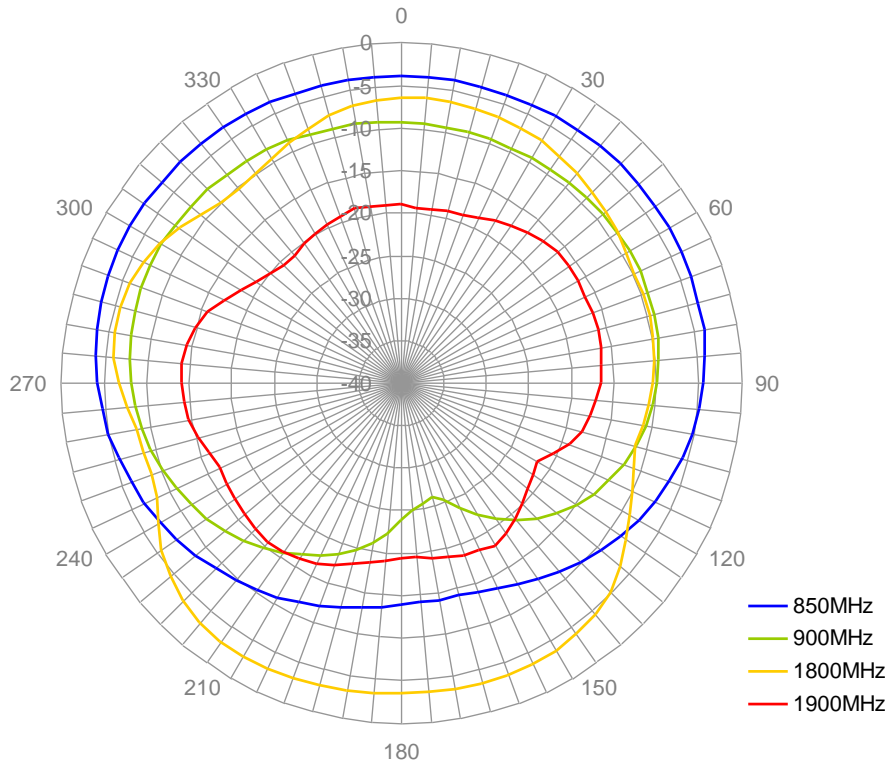


H-plane Radiation

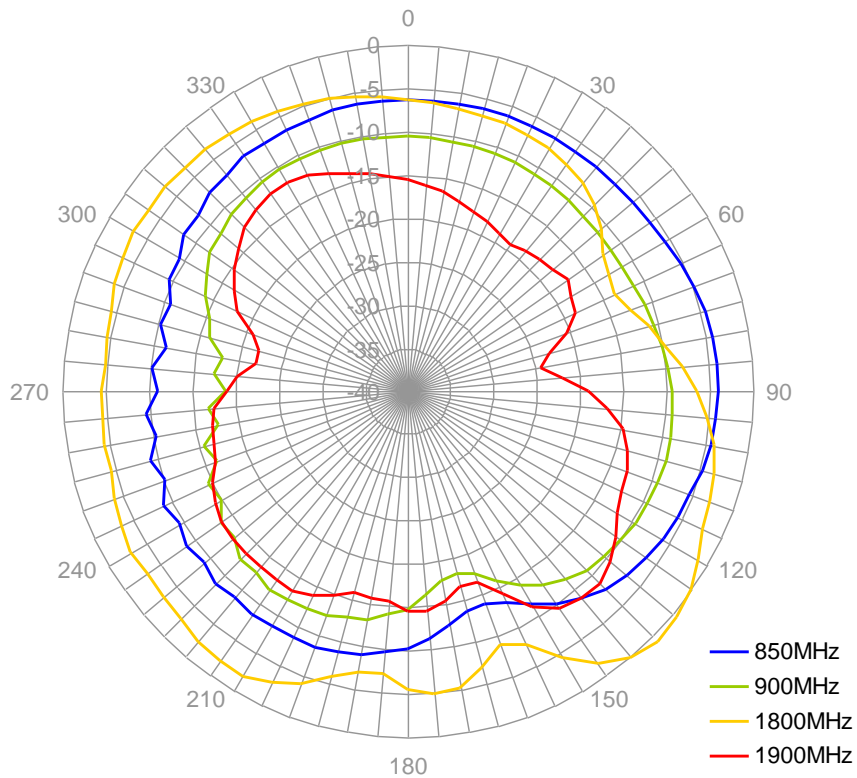


IV.5. Radiation Pattern of PC27 on ABS

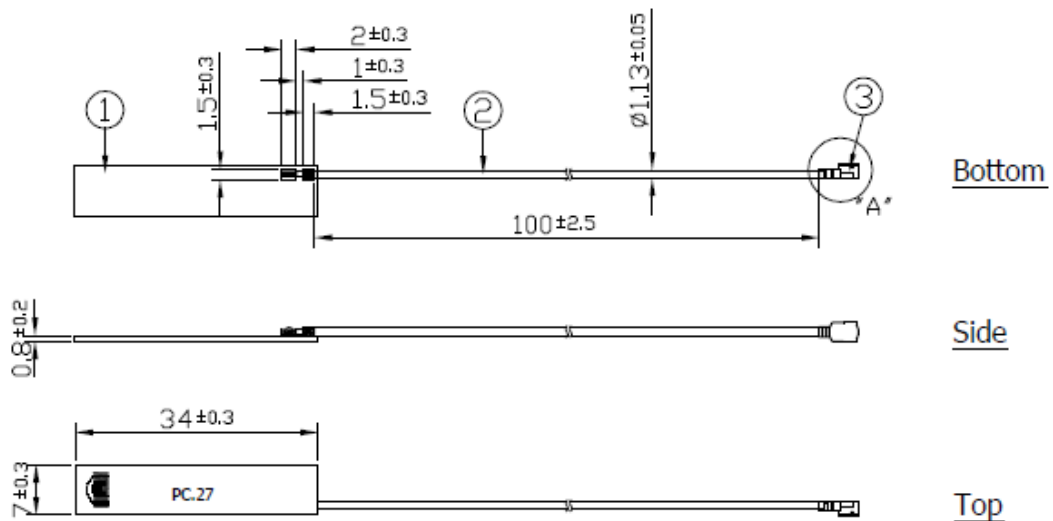
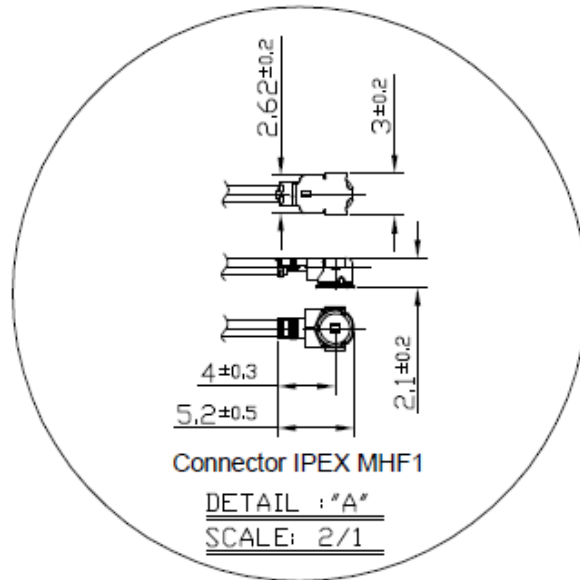
E-plane Radiation



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.