

# LTE 4G Bands Flexible PCB Antenna SPECIFICATION





Antenna Features Electrical LTE (LB)

#### Environmental

Dim: 79.2mm\*16.4mm\*0.13mm -50°C~85°C Thermal Resistance RoHS, REACH Compliant

### **Installation** Double Sided Adhesive Direct Stick on Device Enclosure

## Application

4G LTE Communications Remote Monitoring Internet Applications



### \*NVC LTE 4G Bands FPC Antenna\*

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NVC provides high quality FPCB LTE series for 4G applications. The flexible PCB antennas including cable and connector, can be easily installed on the housing surfaces by adhesive. By just simple "Peel and Attach", it will assist end users to get seamless 4G connections.

Such application, for example, a video conference call, remote monitoring and internet applications, the mobile devices require a reliable data connection whether it is indoor or outdoor. NVC FPCB LTE antennas offer high quality 4G LTE connections at a competitive price when "Wifi" sometimes is not an available choice.

NVC provides different scerario options to be selected, please read the technical specifications to choose the best suitable solution for you. Or, Even better, we can customize the antenna compeletely based on your requirements. Please contact local sales for more info and support.



LTE 4G bands					
Band	LB				
Frequency (MHz)	790~960				
Technical Spec					
Peak Gain (dBi)	0.82				
Efficiency (%)	>34				
Polarization	Linear Polarization				
Impedance	50Ω				
	MECHANICAL				
Dimension	79.2mm*16.4mm*0.13mm				
Material Content	Flexible PCB				
Coaxial Cable	$\varphi$ 1.37mm Micro Coax., 63.8mm length, Fully Customizable				
Connector	IPEX MHFI				
Adhesive	3M467				
Weight	3.5g/1pcs				
Pulling Force	Minimum 2 KGF/cm2				
ENVIRONMENTAL					
Operation Temperature	-40°C to 85°C				
Storage Temperature	-40°C to 90°C				
Humidity	Non-condensing 65°C 95% RH				

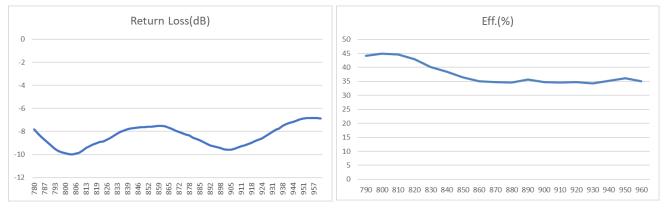
\*The antenna was tested on 2mm thick ABS board.



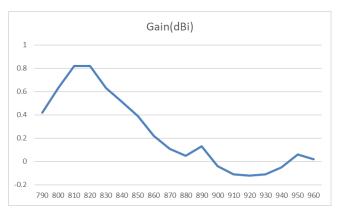
#### 3.1. LTE 4G Bands Antenna

#### 3.1.1. Return Loss

### 3.1.2. Efficiency



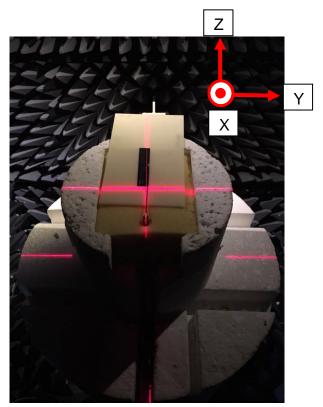
#### 3.1.3. Peak Gain





P/N: FPC-00LAI2A

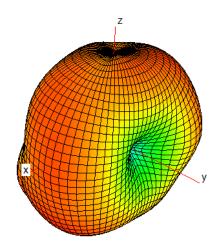
### 3.1.4. Antenna Measurement Setup & 3D Patterns



\*Testing set in NVC GTS2800 compatible Anechoic Chamber

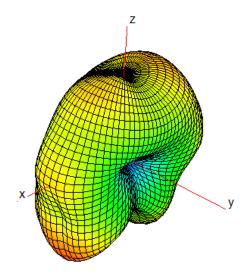
790MHZ

**NOVOCOMMS** 

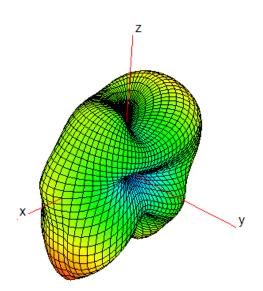




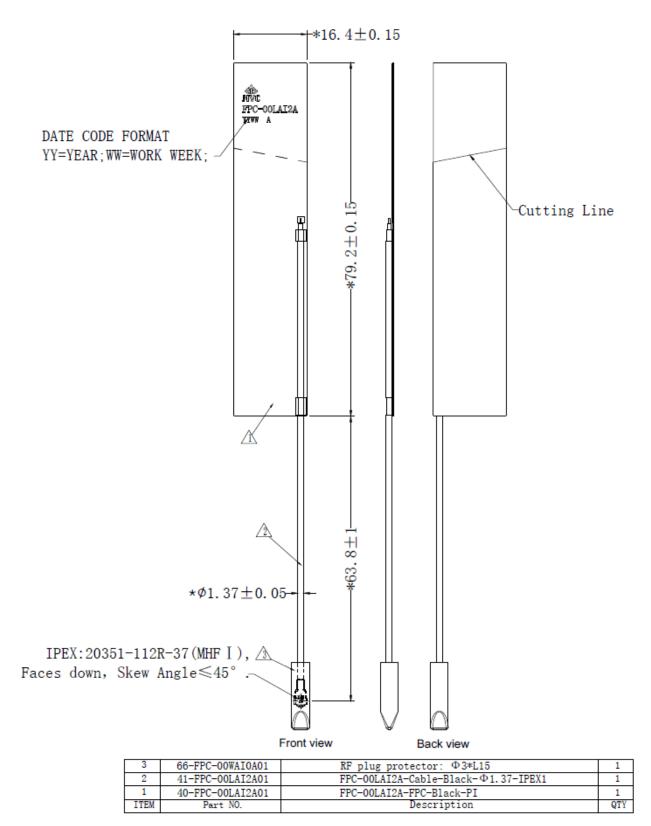
#### 880MHZ



#### 960MHZ



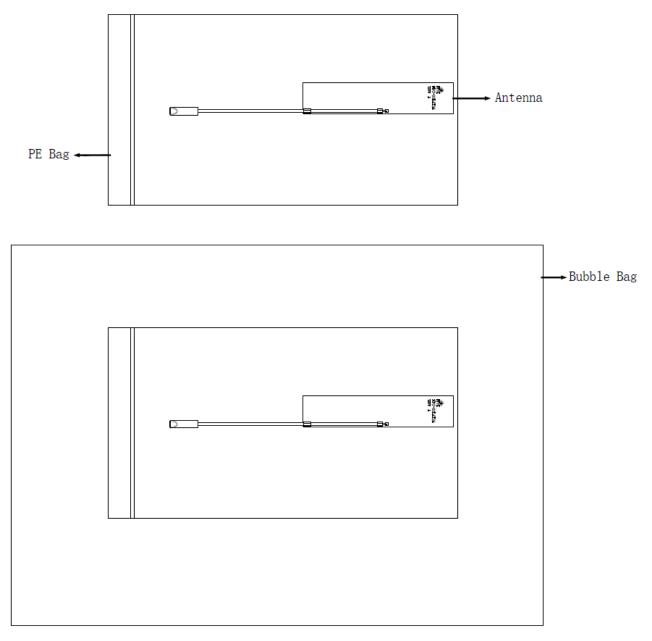




Unit: mm

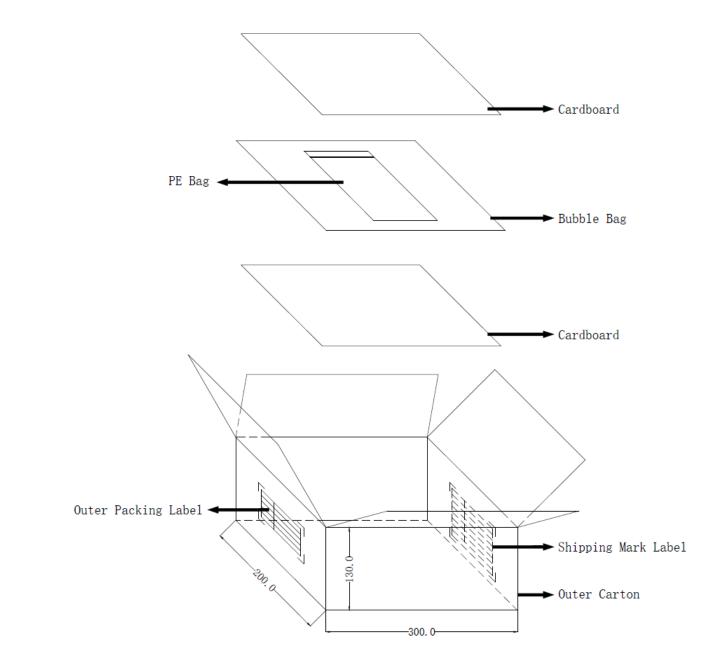


## 5. Packaging



10 pieces per PE Bag200 pieces per Bubble Bag2000 pieces per Outer Carton







The antenna can be easily stick on the inner side of the device enclosure, please be aware any metal content part might affect antenna radiation performance. Please keep the metal content part as far as possible to antenna. If your evaluation cannot avoid the metal content part approximate to antenna body. Please contact your local supporting NVC sales, we will provide the best simulation in your application. Also, get the antenna fine tuned with the best performance delivery.