

P/N: FPC-00LAI4A

LTE 4G Bands Flexible PCB Antenna SPECIFICATION



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Antenna Features Electrical

LTE (MB+HB)

Installation

Double Sided Adhesive

Direct Stick on Device Enclosure

Environmental

Dim: 41.7mm*18.5mm*0.13mm -50°C~85°C Thermal Resistance RoHS, REACH Compliant

Application

4G LTE Communications
Remote Monitoring
Internet Applications



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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.





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2. Specification

LTE 4G bands					
Band	MB	НВ			
Frequency (MHz)	1710~2170	2300~2700			
Technical Spec					
Peak Gain (dBi)	2.18	4.78			
Efficiency (%)	>71	>68			
Polarization	Linear P	Linear Polarization			
Impedance	5	50Ω			
MECHANICAL					
Dimension	41.7mm*1	41.7mm*18.5mm*0.13mm			
Material Content	Fle	Flexible PCB			
Coaxial Cable	arphi 1.37mm Micro Coax., 82	φ 1.37mm Micro Coax., 82.3mm length, Fully Customizable			
Connector	IF	IPEX MHFI			
Adhesive		3M467			
Weight	1	1.8g/1pcs			
Pulling Force	Minimu	Minimum 2 KGF/cm2			
ENVIRONMENTAL					
Operation Temperatu	-40°	-40°C to 85°C			
Storage Temperatur	e -40°	-40°C to 90°C			
Humidity	Non-conden	Non-condensing 65°C 95% RH			

^{*}The antenna was tested on 2mm thick ABS board.





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3. Antenna Characteristics

3.1. LTE 4G Bands Antenna

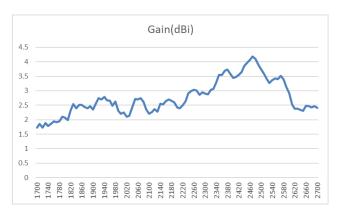
3.1.1. Return Loss



3.1.2. Efficiency

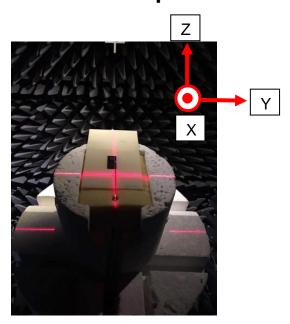


3.1.3. Peak Gain



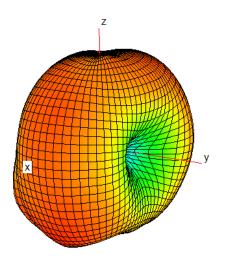


3.1.4. Antenna Measurement Setup & 3D Patterns



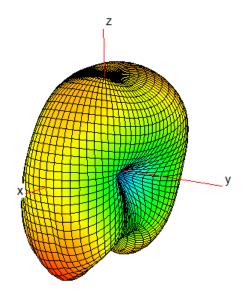
*Testing set in NVC GTS2800 compatible Anechoic Chamber

790MHZ

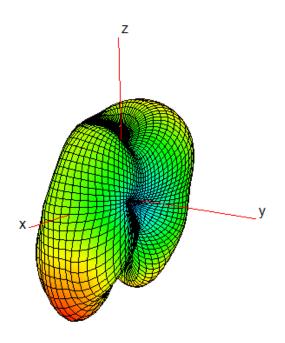




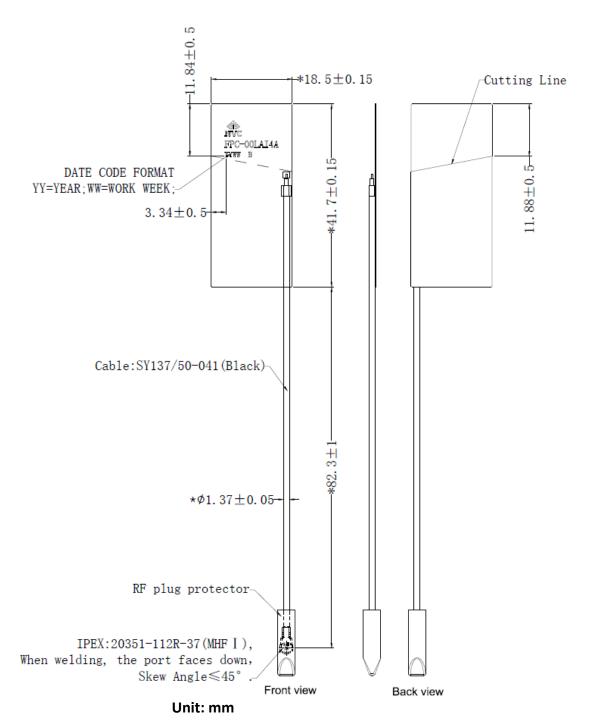
2100MHZ



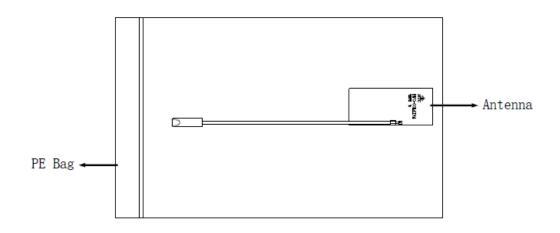
2500MHZ

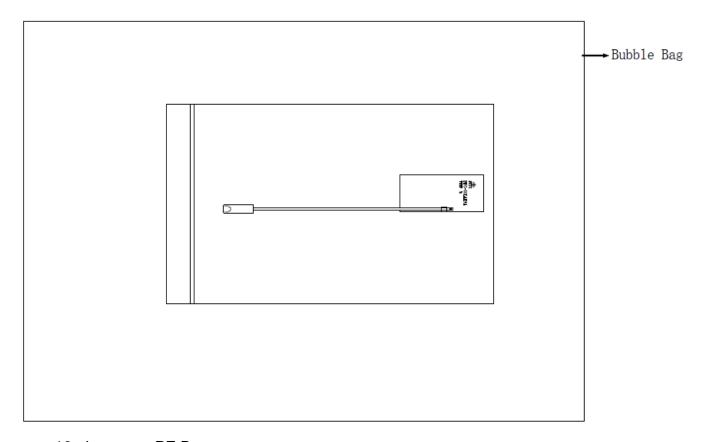






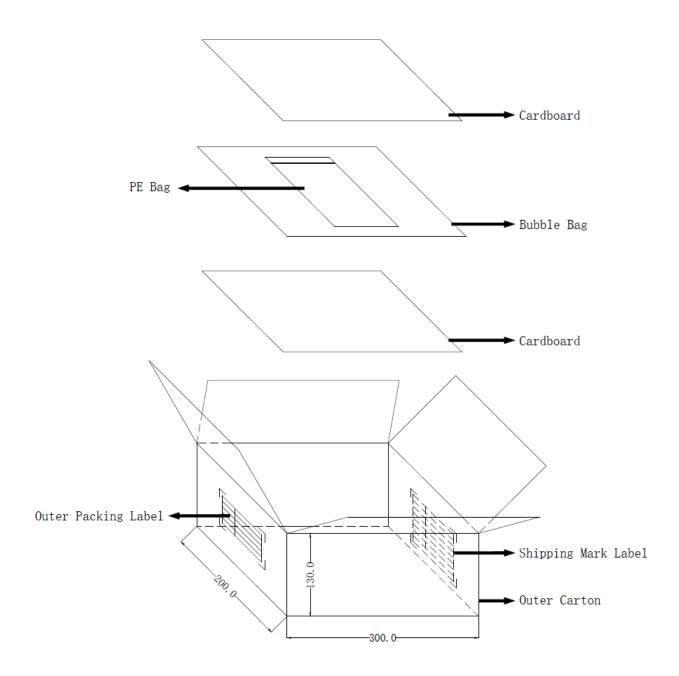






10 pieces per PE Bag200 pieces per Bubble Bag2000 pieces per Outer Carton







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.