

PL510PCB PL510RPCB

(DATASHEET)

Type LTE Antenna

Frequencies AMPS (824-894 MHz)

GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz)

WIFI / BLUETOOTH (2.4 GHz) LTE (790-860/1710-2690 MHz)

Mounting Glass mount

Revision 00



P. Tipul D.Noble

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1. PRODUCT SELECTION

PL510PCB without diagnostic resistor PL510RPCB with diagnostic resistor

2. SPECIFICATION

2.1. Electrical Specifications

<u> </u>	
Frequencies	AMPS (824-894 MHz)
	GSM (900 MHz)
	DCS (1800 MHz)
	PCS (1900 MHz)
	3G (UMTS 2.1 GHz)
	WIFI / BLUETOOTH (2.4 GHz)
	LTE (790-860/1710-2690 MHz)
Impedance	50 Ohms
Polarization	Horizontal
Gain	2.14dBi
VSWR	<2:1
Power handling	25W
Operating temperature	-40°C to +85°C

2.2. Connection Specifications

Connector type: SMA male Cable: RG174U Cable length: 30 cm

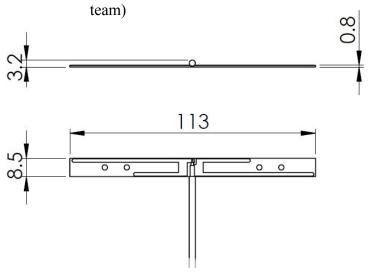
For different cable and connector type ask our sales team.

2.3. Mechanical Specifications and Dimensions

Material: FR4

Max. dimensions: 3.2mm x 113mm x 8.5mm (H x L x W)

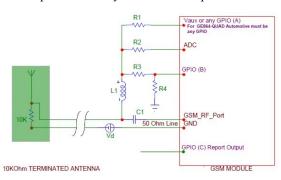
Weight: 13 g 'weight with 250cm cable length and SMA connector' Colour: Black or White(for different colours please ask our sales





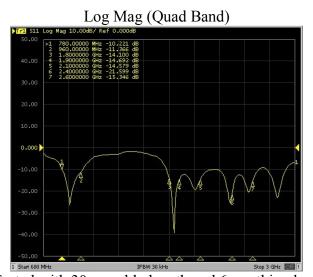
3. ANTENNA CONNECTION

Antenna PL2510RPCB isterminated with 10kOhmresistor what canbe used inapplication where youneed checkifantenna is connected, or ifthere isopen circuit. Onthe picture belowyoucansee example of connecting antenna into that circuit.

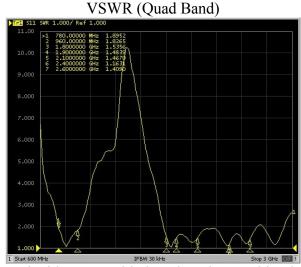


4. MEASUREMENT

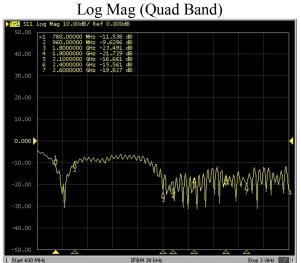
S11 4.1.

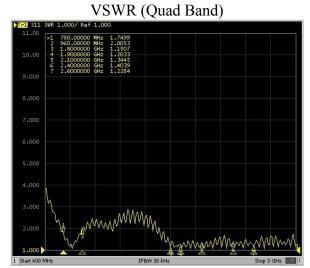


Tested with 30cm cable length and 6mm thin glass.



Tested with 30cm cable length and 6mm thin glass.





Tested with 250cm cable length and 6mm thin glass. Tested with 250cm cable length and 6mm thin glass.



4.2. 3D radiation pattern

