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# Antenna Specifications

MODEL : PC-CARD

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SB TELCOM CO., LTD.

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1. General				
1.1 The Product				
MODEL		NSB182-0800/1900-CL2		
ANTENNA TYPE		HELICAL		
APPLICATIONS		PC_CARD ANTENNA		
1.2 Electrical Properties				
FREQUENCY RANGE		824 ~ 849MHz		
FREQUENCY RANGE		1850 ~ 1990MHz		
IMPEDANCE (NOMINAL)		50Ω		
V.S.W.R (NOMINAL)		LESS THAN 2 : 1		
RADIATION PATTERN		OMNI-DIRECTIONAL		
POLARIZATION		VERTICAL		
1.3 Mechanical Properties				
LENGTH		70.7mm ±0.3mm		
TEMPERATURE		-30 ℃ ~ +70℃		
CONNECTOR TYPE		SCREW TYPE		

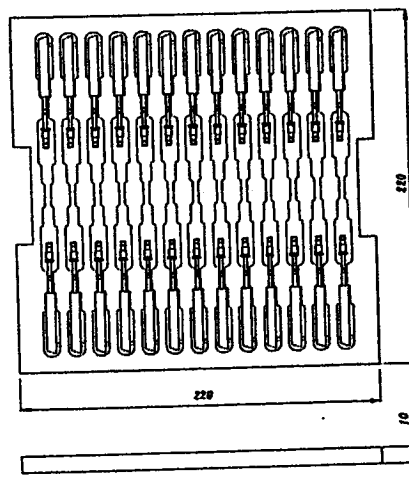


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## 1.4 Packing

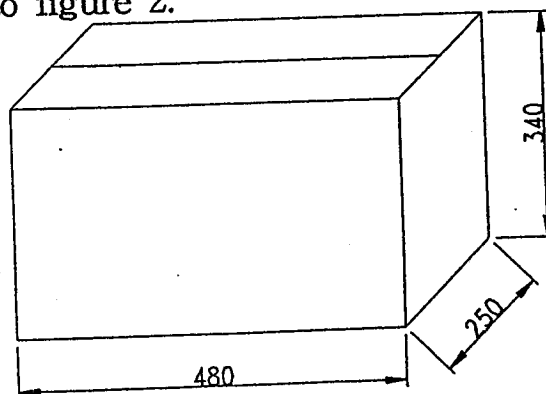
### ① Packing Condition

26EA of antennas are placed on a pad (H480 X W250 X I340) according to figure 1.



( FIG. 1 )

A box contains 40 pads and 1040 antennas and be packing according to figure 2.



( FIG. 2 )

### ② Remarks

A change of packing material shall be executed with mutual approval between buyer and supplier.



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## 2. Electrical Properties

### 2.1 Frequency Range

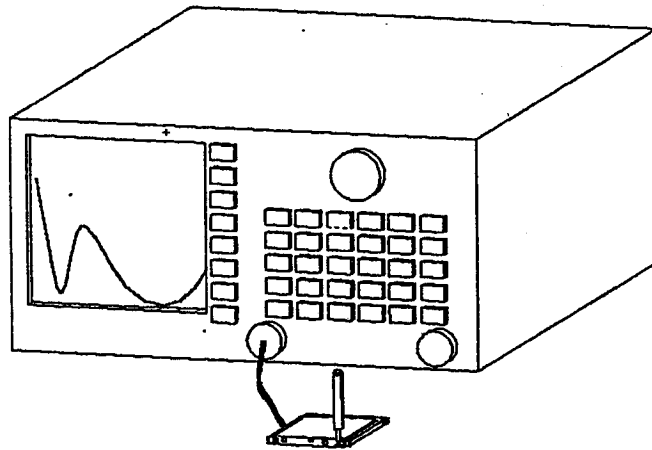
824 ~ 894MHz , 1850 ~ 1990MHz

### 2.2 Impedance

① Nominal Value : 50  $\Omega$

② Method

To measure the appropriate impedance with the frequency desired after connecting a handset with the antenna installed to the reflection point from the network analyzer.



( FIG. 3 )

### 2.3 VSWR

① RETRACTED → Less than 2 : 1

② EXTENDED → Less than 2 : 1

③ Identical test method when measuring impedance



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## 2.4 GAIN

Below are minimum peak gain values of the frequency with the lowest peak gain within each band including production variation influences.

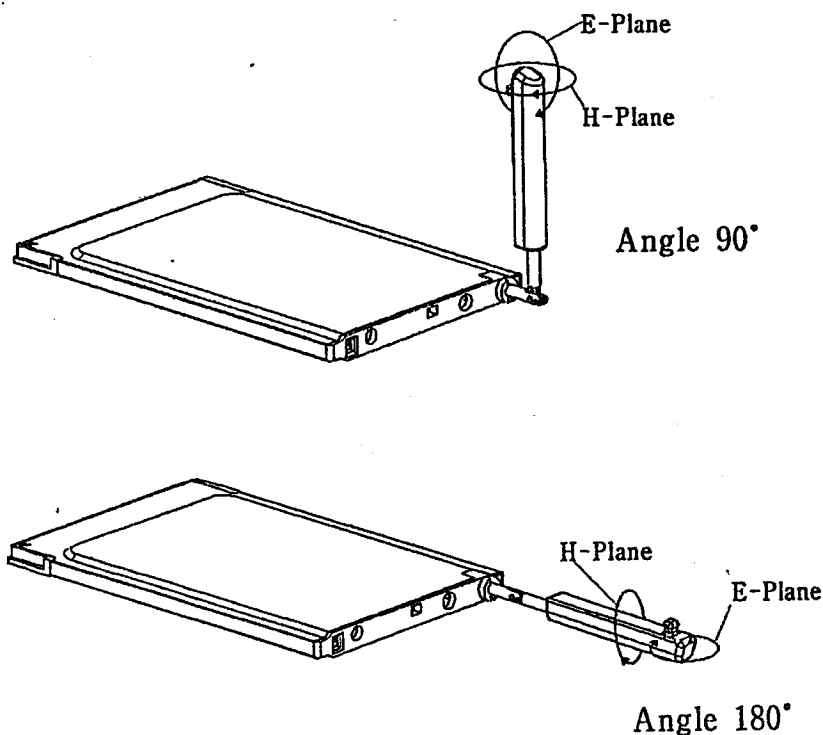
### Method of Measurement

The connection is done according to Radiation Pattern are Measured at the band edges.

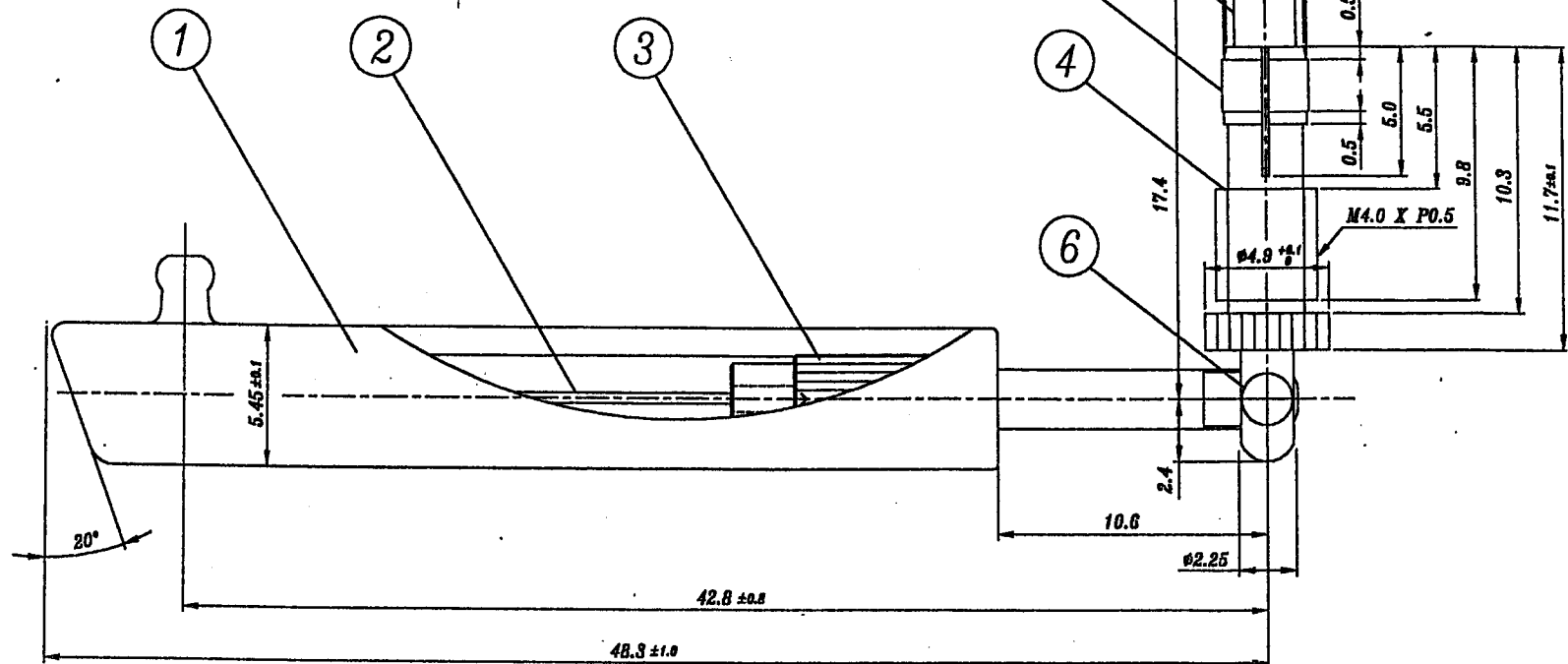
The measurements are Performed so as to minimize the influence of the cables.

Only the coplanar polarization component os measured. The antenna is measure in 2 planes(H,E) in free Space.

The antenna is measured in free space calibration for absolute Measurements is done with a reference antenna which is in turn calibrated by a certified calibration company.



	MRK.	DATE	REVISION	SIGN
END				



7		C-RING(φ3.1 X 2.0)	볼링동	1	
6	PCL-9001	PIN	BRASS(BSBM2)	1	N% PLATED
5	RCL-9004	METAL ROD	BRASS(BSBM2)	1	N% PLATED
4	RCL-9003	METAL ROD	BRASS(BSBM2)	1	N% PLATED
3	RCL-9002	METAL ROD	BRASS(BSBM2)	1	N% PLATED
2	SCL-9002	SPRING	STEEL WIRE(φ0.4입연)	1	동도금
1	NSB182	PIPE	SKYPEL	1	COLOR : BLACK
NO.	PARTS NO.	NAME	MATERIAL	Q'TY.	REMARKS
DRAWN BY 윤희영	CHECK BY 김지영	APPROVE BY	SCALE	UNIT	
2001. 03. 16.	2001. 03. 16.	01. 3. 16	5/1	mm	
DRAWING CODE NUMBER		MODEL NAME	PARTS NAME		
		NSB182-800/1900-CL2			