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Report number: 2002120  
FCC: Part 15.247  
Industry Canada: RSS-210  
FCC ID: E2XSWL-2210P  
M/N: SWL-2210P

## **APPENDIX B: ANTENNA SPECIFICATIONS**

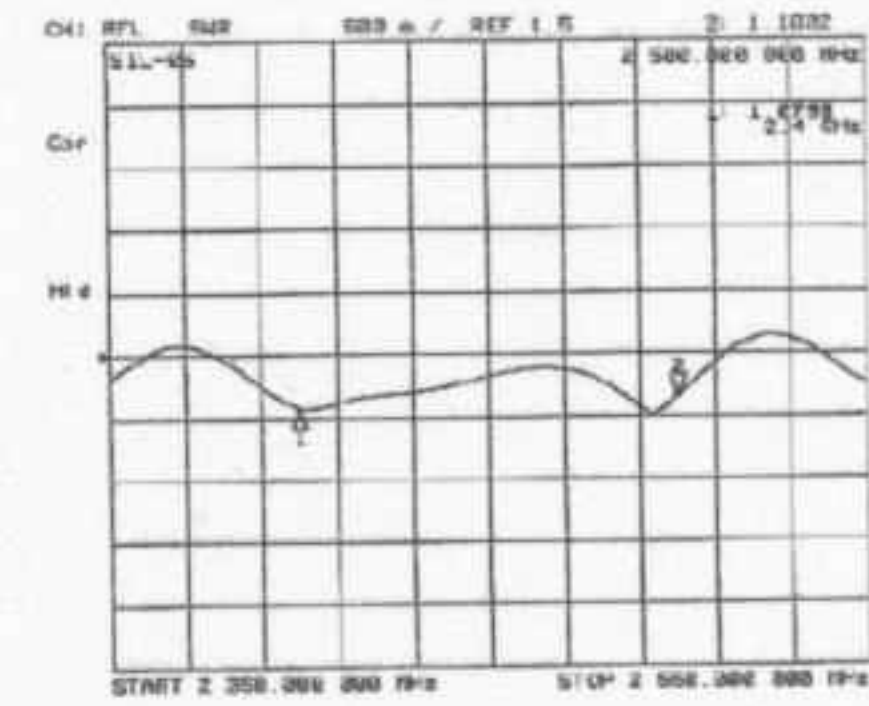
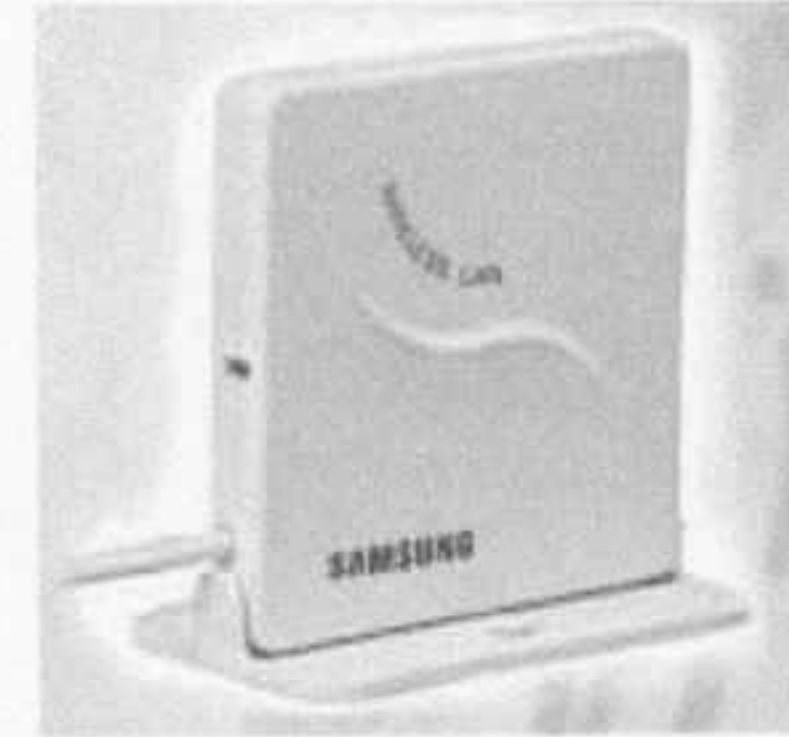
Please see the following pages.

# Wireless LAN Patch Antenna

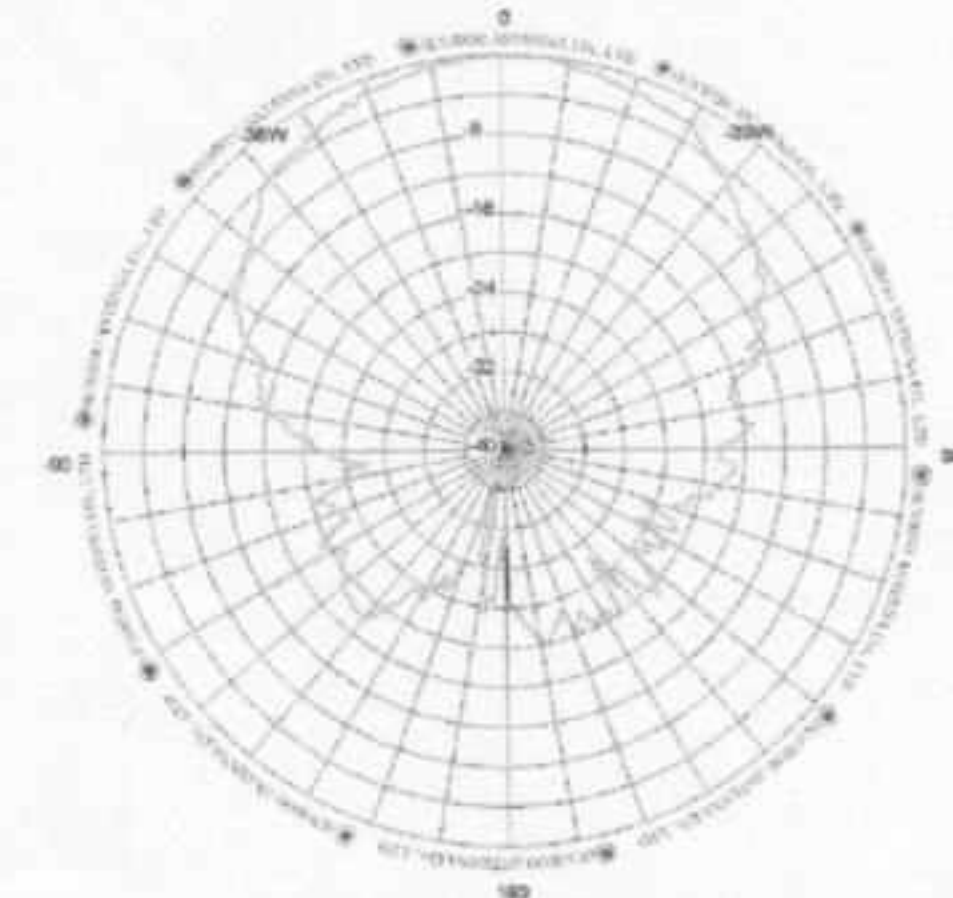
Wireless LAN patch antenna range is designed to give local area coverage for voice and data wherever it is needed. All antennas from the range can be used for both indoor and outdoor applications, locations such as computer rooms, shopping malls, offices, and factories, where signal quality needs to be improved or where extra capacity is needed to satisfy high traffic demand.

## SPECIFICATION

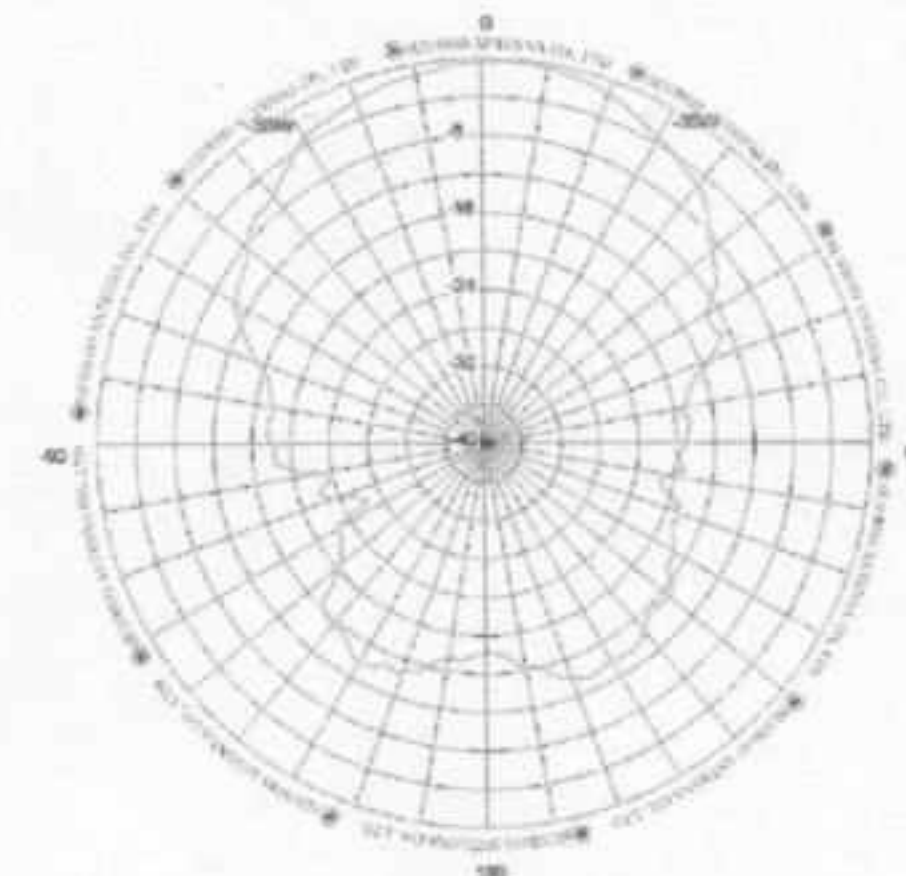
Model	SIL-05			
Type	Microstrip Patch Type			
Characteristic	Electrical Char.	Frequency Range	2.4 GHz ~ 2.5 GHz	
		Polarization	Vertical	
		Gain	≥ 5 dBi	
		Beam width	≥ H-Nominal	60°
			≥ V-Nominal	50°
		V. S. W. R	1 : 1.5	
		Power Capability	≤ 1 Watt	
	Impedance	50 Ω		
	Physical Char.	Radiation Element Material	Steel	
		Cable length	150 cm	
Dimension		75×78×12 mm		
Weight		100 g		
Input Connector		SMA male (Left Hand)		



V.S.W.R vs Frequency



Horizontal Pattern

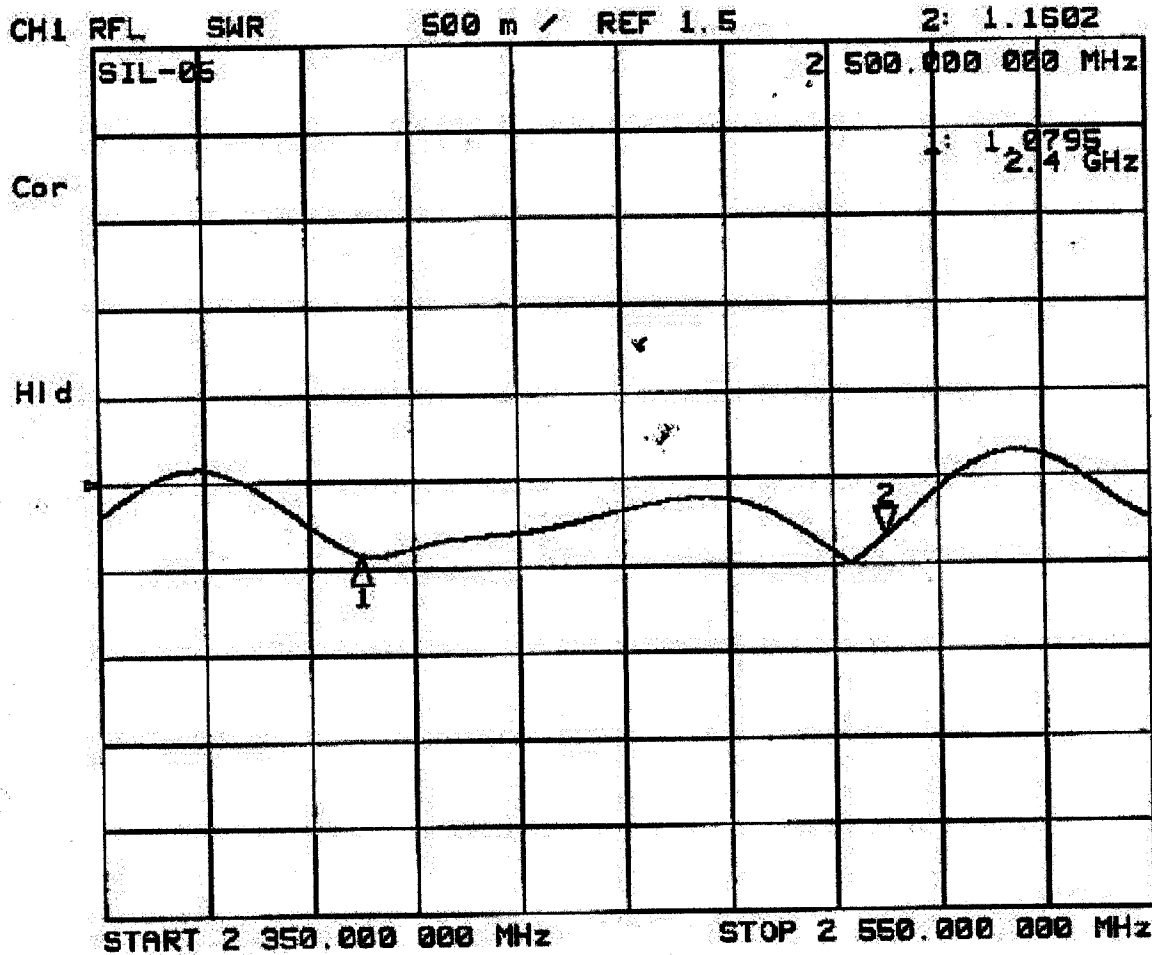


Vertical Pattern

43-4 Myunmok 8 dong, Junglang-ku, Seoul, Korea.

Tel : 82-2-491-1771 Fax : 82-2-491-3771





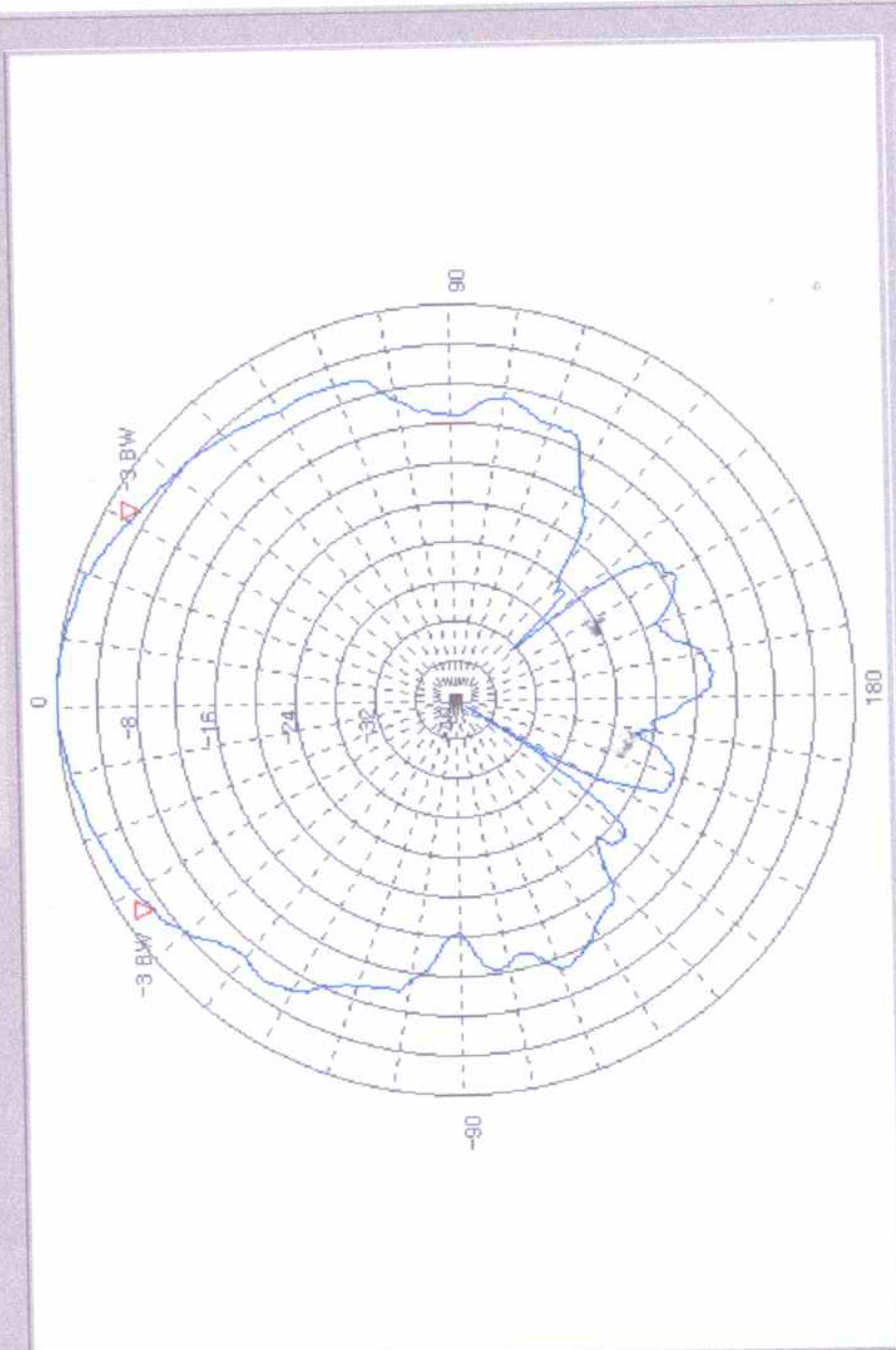
X축 : 000.000

Y축 : 000.000

Z축 : 000.000

**SUNWOO ANT. CO., Ltd**  
**ANTENNA MEASUREMENT SYSTEM**  
 Copyright (C) 1998 HP KOREA Ver. 1.0

Amplitude vs Azimuth(Elevation) - Polar



**Measurement Setup**

Model: sil-05  
 Date: 2001.09.27  
 File Name: 2450  
 Serial No: default  
 Frequency(MHz): 2450  
 Level(dBm): 10  
 Measure Speed(pps): 8000  
 X (90 or 180)  
 Y Minimum(dBm): -40  
 Zero set(deg): -5  
 Polarization(deg): 0  
 Elevation Set(deg): 0  
 Std Gain(dBi): 16.74  
 Freq./dBi/dBm/Level: [dropdown]

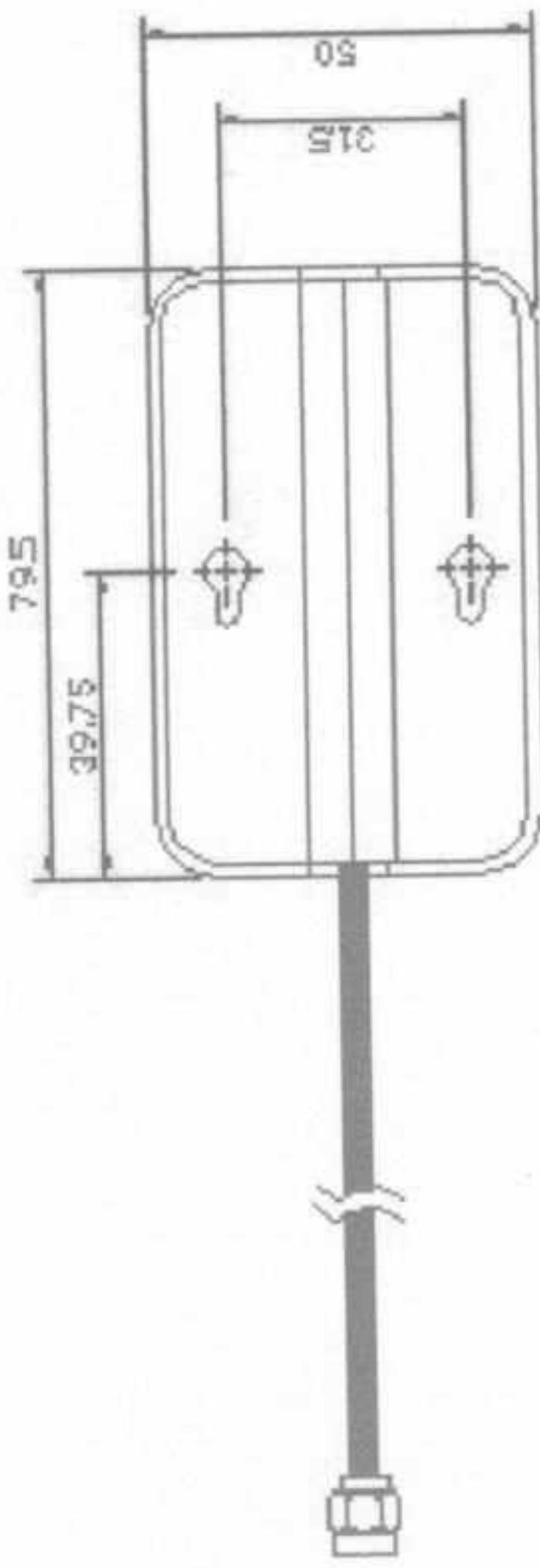
**Measurement Result**

Beam peak	5.35	dBi	1st	deg	BW	-3	dB	66.18	deg
Beam peak	-1.65	deg	2nd	deg	BW		dB		deg
F/B Ratio	-13.97	dB	3rd	deg	BW		dB		deg

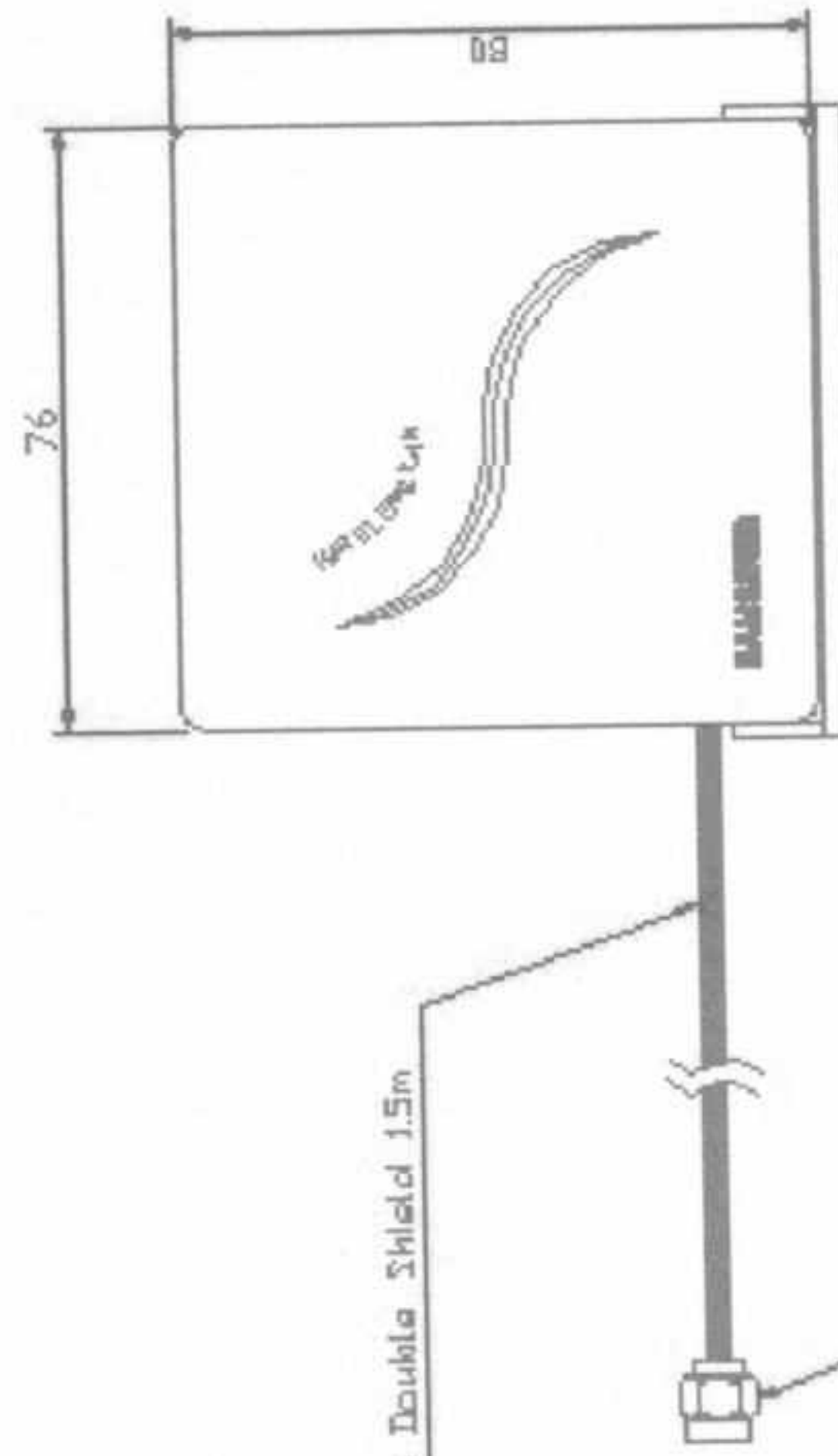
**Amplitude vs Azimuth(Ele.)**

Abscissa: Theta  
 Unit: Degree  
 Ordinate: Amplitude  
 Unit: dB

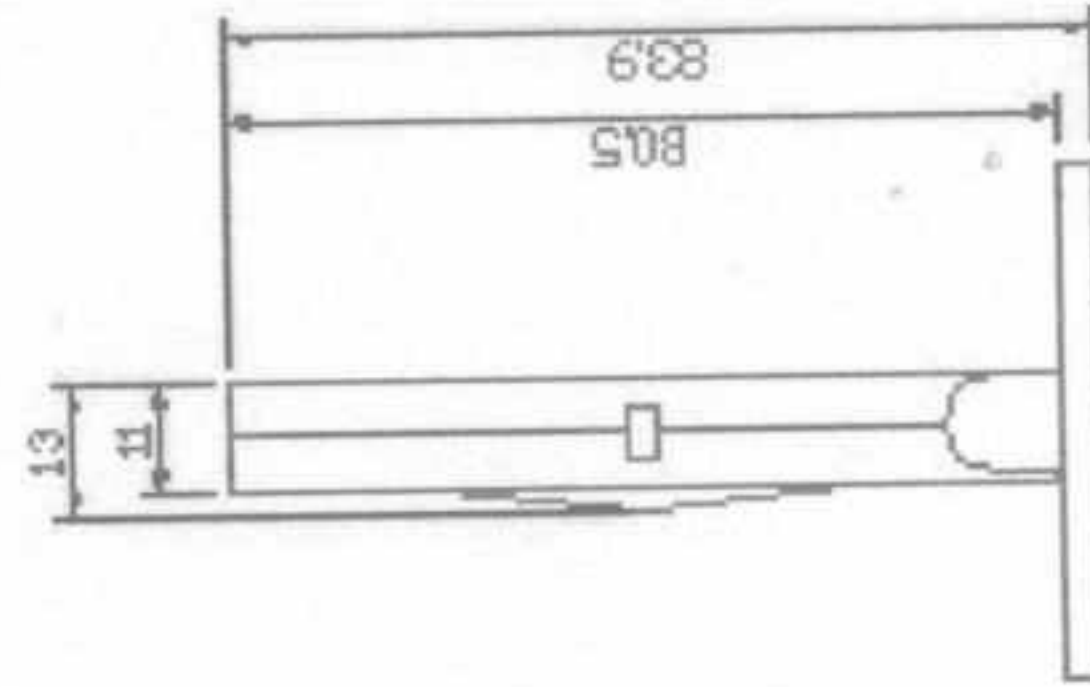
Sunwoo Communication Co., Ltd. TEL:491-1771, FAX:491-3771



RG174/U Double Shield 1.5m



SNA Mole Reverse



명칭		수량		제외		비고	
부품명		수량		제외		비고	
명칭		수량		제외		비고	
2001. 3. 12		2001. 3. 12		2001. 3. 12		2001. 3. 12	
Sunwoo Communication Co., Ltd.		Sunwoo Communication Co., Ltd.		Sunwoo Communication Co., Ltd.		Sunwoo Communication Co., Ltd.	
SIL-05 (외경도)		SIL-05 (외경도)		SIL-05 (외경도)		SIL-05 (외경도)	
1/1.3		1/1.3		1/1.3		1/1.3	
mm		mm		mm		mm	
SNA Mole Reverse		SNA Mole Reverse		SNA Mole Reverse		SNA Mole Reverse	