

Nemko EESI, Inc.		11696 Sorrento Valley Road, Suite. F, San Diego, CA 92121 Phone (858) 793-9911 Fax (858) 259-7170		
DATE	DOCUMENT NAME	SUBMITTAL #	FCC ID	PAGE
12/20/99	Solectek Corporation SkyWay Wireless LAN Bridge Antenna Specifications	99-244	KA324WAN5	1



SuperPass Company Inc.
167 Lexington Court, Unit 3, Waterloo, Ontario, Canada N2J 4N8
Tel: (519)886-5186 Fax: (519)886-5314
Email: INFO@SUPERPASS.COM Web: WWW.SUPERPASS.COM

12dBi Directional Panel Antenna for WLAN Wide Beamwidth

Technical Specifications

Model Number: SPUD6PDE12N

No	ITEM	TYPICAL	REMARKS
1	Frequency Range	2400 – 2500 MHz	
2	Impedance	50 Ω	
3	VSWR (or Return Loss)	$\leq 1.5:1$ (or $\geq 14\text{dB}$)	
4	Gain	$\geq 12\text{dBi}$	
5	Polarization	Vertical, Linear	
6	3dB Horizontal Beamwidth	120°	
7	3dB Vertical Beamwidth	12°	
8	Front to Back Ratio	$\geq 17\text{dB}$	
9	Max. Power Input	$\geq 20\text{W}$	
10	Connector	N-Type, Bottom-Feed	Customer Design
11	Appearance	Panel Type	
12	Size	507 × 52 × 30 [mm]	
13	Housing Material	Powder Coated Aluminum	
14	Radome Material	ASA with UV Protection	
15	Radome Color	Gray or White	
16	Case Design	Water Resistance	
17	Weight	250g	
18	Wind Loading (Frontal)	$\geq 3\text{Kg}$	200km/h
19	Temperature Range	-30 to +75 °C	
20	Storage Temperature	-30 to +75 °C	
21	Sensing Resistor	Yes	
22	Mounting Hardware	Clamp Set	
23	Life Expectancy	20 years	

Date: July 9, 1999

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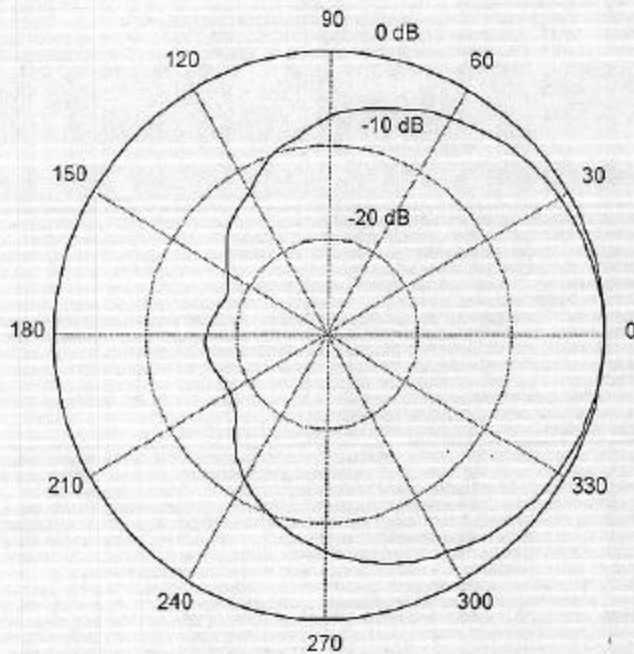
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12dBi Panel Antenna

Frequency Range: 2300-2500 MHz
Operation Frequency: 2440 MHz
Gain: 12 dBi
Beamwidth: 120°
Radiation Pattern: H-plane
Antenna Size: 5cm x 51cm

Date: June 30, 1999



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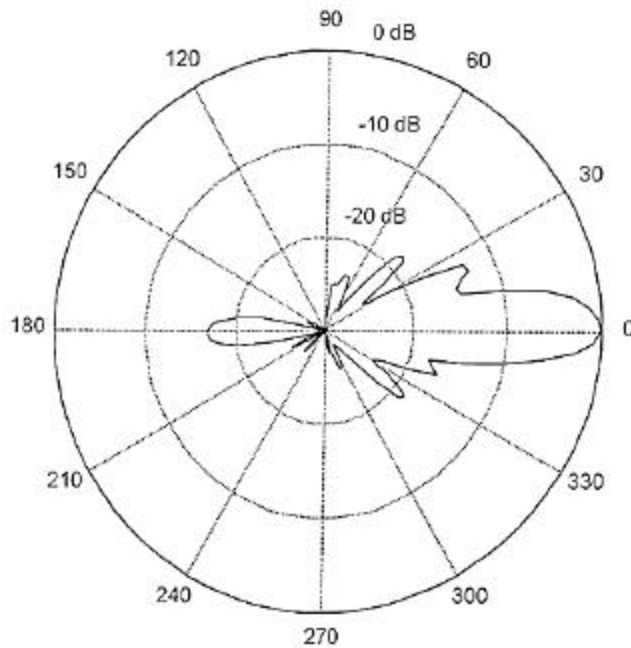
Tel: (519)886-5186 Fax: (519)886-5314

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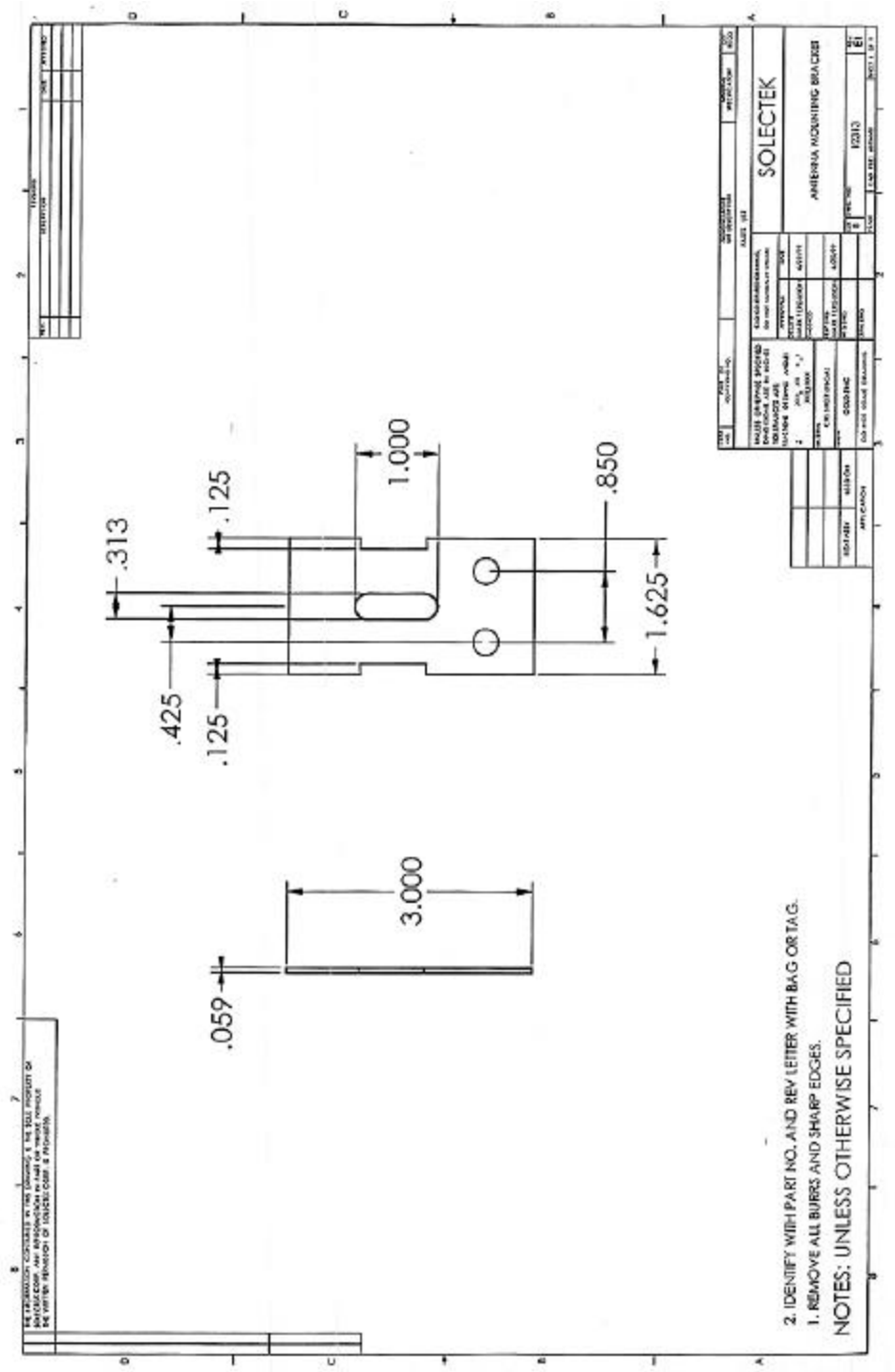
12dBi Panel Antenna

Frequency Range: 2300-2500 MHz
Operation Frequency: 2440 MHz
Gain: 12 dBi
Beamwidth: 12°
Radiation Pattern: E-plane

Date: July 8, 1999



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One 12 dBi SuperPass Panel
From Vendors Charts

<u>Degree</u>	<u>12 dBi PNL</u>	<u>TEST 00</u>
0	12	
10	11.8	
20	11.2	
30	11	
40	10.3	
50	9.5	
60	8.5	
70	7.2	
80	6.3	
90	5	
100	3.1	
110	2	
120	-0.5	
130	-1.7	
140	-3.5	
150	-5.4	
160	-6.1	
170	-5.5	
180	-4.7	
190	-4.6	
200	-5.4	
210	-5.8	
220	-5	
230	-2.5	
240	0	
250	1.5	
260	3.5	
270	5	
280	6.1	
290	7.7	
300	8.6	
310	9.6	
320	10.1	
330	10.9	
340	11.5	
350	11.9	

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12 dBi SuperPass Panel Test 00

