

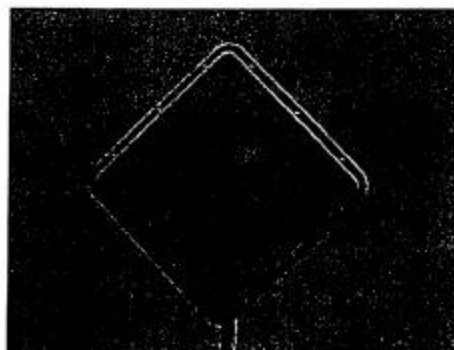
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12/20/99	Solectek Corporation SkyWay Wireless LAN Bridge Antenna Specifications	99-244	KA324WAN5	1



Planar Array Antennas

The new planar array antennas from RSI Wireless Communications are designed to work with spread spectrum radios at 2.4-2.48 and 5.725-5.85 GHz, licensed radios at 3.4-3.7, 7.125-7.75 and 10.1-10.7 GHz, and PCS repeaters in the 1900 MHz band.

In urban environments, where aesthetics and zoning are critical, the sleek planar design is an attractive alternative to solid and grid parabolic antennas.



Planar antenna technology provides many benefits besides attractive packaging. This technology, developed by RSI Wireless Antennas, brings intrinsic tolerance control, resulting in virtually identical antenna performance from one product to the next. Additionally the photolithographic microstrip process results in high-production yields and cost savings that we pass on to our customers.

	A-18A12*-C	A-24A12*-C	A-35A12*-C
Frequency (GHz)	1.85-1.99	2.4-2.48	3.4-3.7
Gain (dBi)	15.0	17.0	19.7
HPBW	33°	21°	14.9°
F/B (dB)	30	33	37
VSWR	1.5:1	1.5:1	1.4:1

	A-57A12N-C	A-75A12N-C	A-101A12N-C
Frequency (GHz)	5.725-5.85	7.125-7.75	10.1-10.7
Gain (dBi)	21.5	22.5	Available soon
HPBW	9.6°	7.3°	"
F/B (dB)	37	33	"
VSWR	1.5:1	1.5:1	"

General Specifications:

Polarization	Vertical or Horizontal
Max. Input Power	100 Watts
Dimensions	13x13x1.8"
Wind Speed (mph)	70 operational/125 survival
Elevation Adjust	±15°
Weight (lb)	3.8
Mount	1.9-2.9" pipe or wall

Note:

* indicates connector
N = N-female
E = 7/16 DIN female

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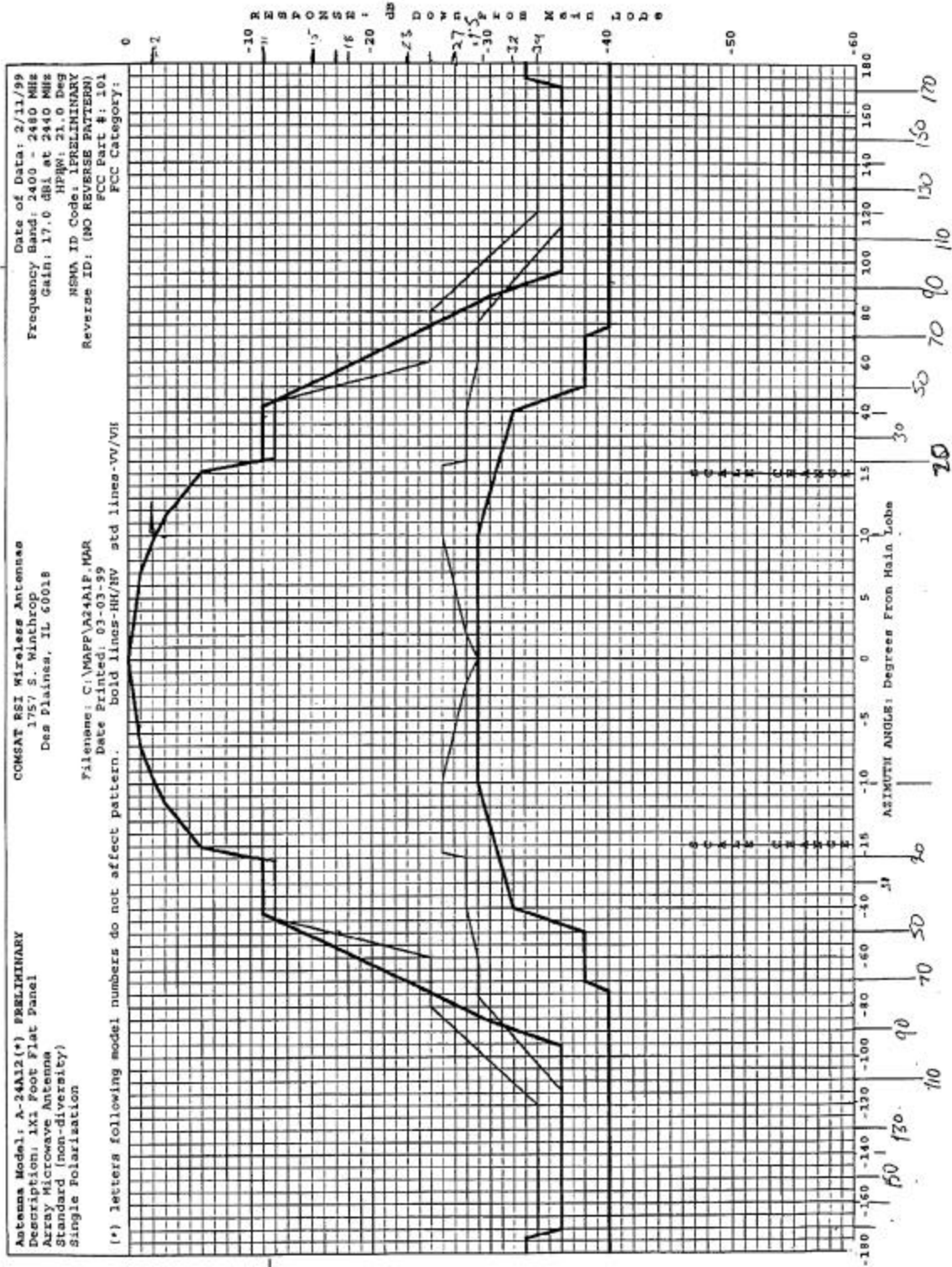
Planar Array Antenna Specifications									
Model	Frequency (GHz)	Gain (dBi)	Beam Width (deg)	E/B (dB)	VSWR	Weight (lb)	Dimensions L x W x D (inches)	Elevation Adjust (deg)	Mount (inches)
<i>One Foot Planar Array Antennas</i>									
A-18A12*-C	1.850-1.990	15.0	33.0	30	1.5:1	3.8	13x13x1.8	15	1.9-2.9
A-24A12*-C	2.400-2.480	17.0	21.0	33	1.5:1	3.8	13x13x1.8	15	1.9-2.9
A-35A12*-C	3.400-3.700	19.7	14.9	37	1.4:1	3.8	13x13x1.0	15	1.9-2.9
A-57A12N-U	5.725-5.850	21.5	9.6	37	1.5:1	3.8	13x13x1.0	15	1.9-2.9
A-75A12N-U	7.125-7.750	22.5	7.3	33	1.5:1	3.8	13x13x1.0	15	1.9-2.9
A-101A12M-C	10.100-10.700	24.5	5.0	35	1.5:1	3.8	13x13x1.0	15	1.9-2.9
<i>Two Foot Planar Array Antennas</i>									
A-8WA24*-r	.806-.896	14.5	35.0	30	1.5:1	15	26x26x1.8	40	1.9-4.5
A-18A24*-r	1.850-1.990	20.0	14.2	33	1.5:1	15	26x26x1.8	40	1.9-4.5
A-24A24*-r	2.400-2.480	22.0	10.7	38	1.5:1	15	26x26x1.8	40	1.9-4.5
A-35A24*-r	3.400-3.700	23.5	7.5	40	1.5:1	15	26x26x1.0	40	1.9-4.5
A-57A24N-U	5.725-5.850	26.5	4.8	41	1.5:1	15	26x26x1.0	40	1.9-4.5
A-75A24N-U	7.125-7.750	27.5	3.7	40	1.5:1	15	26x26x1.0	40	1.9-4.5

General Specifications	
Polarization	Vertical or Horizontal
Max. Input Power	100 Watts
Wind Speed (mph)	70 operational / 125 survival
Temperature (°C)	-40 to +50

Notes: Sensing Resistor = 9.31K Ω (A-24A12N)	
* indicates termination	N = N-Female
	E = 7/16 DIN
	M = SMA (10 GHz only)
r indicates mount	U = Universal Mount with Fine Adjust
	C = Standard Mount

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Single RSI Comsat 17dBi Panel Antenna Array

Prototype model

TEST 87

From Vendors Charts

<u>Degree</u>	<u>17 dBi PNL</u>
0	17
10	15
20	6
30	5
40	5
50	0
60	-8
70	-8
80	-8
90	-10
100	-12.5
110	-15
120	-17
130	-17
140	-17
150	-17
160	-17
170	-17
180	-16
190	-17
200	-17
210	-17
220	-17
230	-17
240	-17
250	-15
260	-12.5
270	-10
280	-8
290	-8
300	-8
310	0
320	5
330	5
340	6
350	15

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**17 dBi PNL RSI Comsat from vendors
charts
TEST 87**

