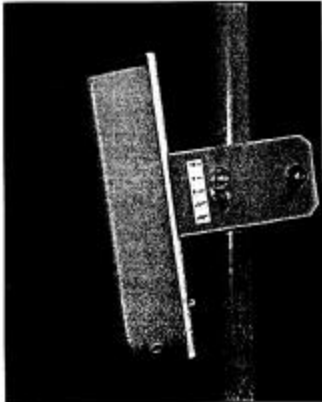


Nemko EESI, Inc.		11696 Sorrento Valley Road, Suite. F, San Diego, CA 92121 Phone (858) 793-9911 Fax (858) 259-7170		
DATE	DOCUMENT NAME	SUBMITTAL #	FCC ID	PAGE
12/20/99	Solctek Corporation SkyWay Wireless LAN Bridge Antenna Specifications	99-244	KA324WAN5	1



TIL-TEK

TA-2408 DIRECTIONAL ANTENNA



The **TA-2408** panel antenna consists of a dipole array on a printed circuit board, enclosed in an aluminum cavity with a plastic front cover. It was designed specifically for wireless data and point-to-multipoint radio applications. The antenna may be mounted for either vertical or horizontal polarization and can be tilted up or down. The antenna elements are at DC ground to aid in lightning protection.

ELECTRICAL SPECIFICATIONS

Frequency Range: 2400 - 2483 MHz
Gain: 17.0 dBi nominal
VSWR: 1.5:1 maximum
Front-to-Back Ratio: 30 dB typical (180 +/- 30 degrees)
Polarization: Vertical / Horizontal
Power Rating: 25 watts
H-Plane Beamwidth (-3 dB): 22 degrees
E-Plane Beamwidth (-3 dB): 22 degrees
Cross-Polarization Discrimination: 20 dB minimum
Impedance: 50 ohms nominal
Termination: Type N female

MECHANICAL SPECIFICATIONS

Length: 12.6 in. (320 mm)
Width: 11.8 in. (300 mm)
Depth: 3.0 in. (76 mm)
Weight Including Clamps: 7 lb. (3.2 kg)
Rated Wind Velocity: 125 mph (200 km/hr)
Horizontal Thrust at Rated Wind: 58 lb. (26 kg)
Mounting: Mounts to a 0.75 - 3.0 in. O.D. (19 - 76 mm) pipe using the TMC-105 clamp supplied

MATERIALS

Radiating Elements: Tin plated copper on PCB
Radome: Gray plastic, UV stabilized
Reflector: Irridited aluminum
Clamp: Hot dip galvanized steel

TIL-TEK ANTENNAS INC.

TIL-TEK ANTENNAS (USA) INC.

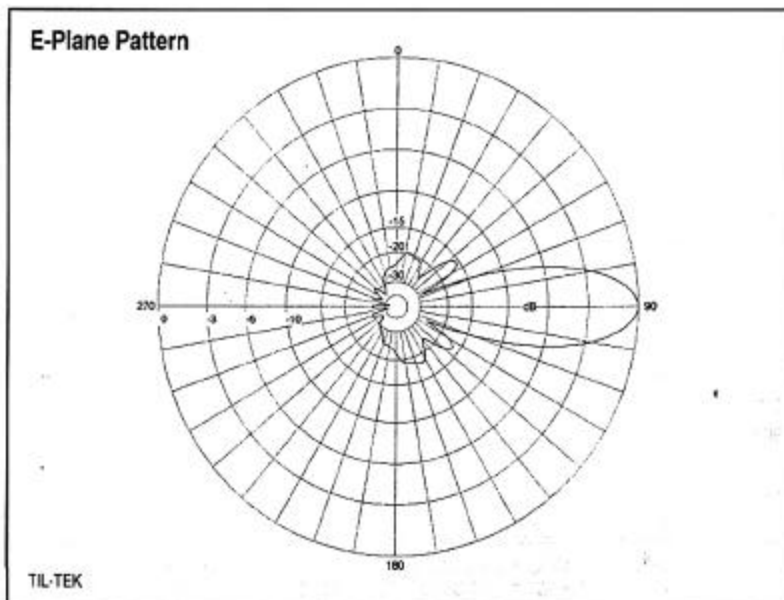
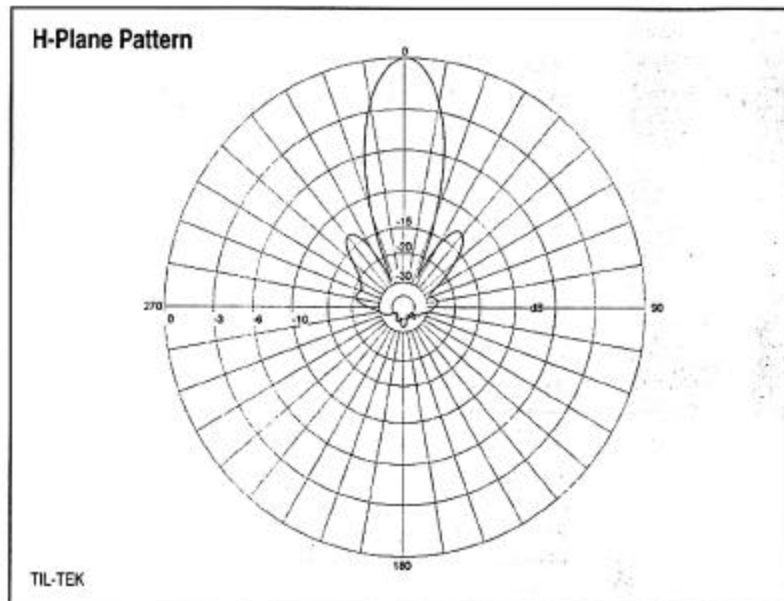
P.O. Box 550, 500 Van Buren St., Kemptville, Ontario, Canada K0G 1J0
 Tel (613) 258-5928 Fax (613) 258-7418 e-mail: info@tiltek.com
 1555 Sherman Ave., Suite 304, Evanston, IL 60201
 Tel (847) 864-1780 Fax (847) 864-1831 e-mail: info@tiltek@msn.com

Data subject to change without notice. Printed in Canada, May 1999.

Form 1276

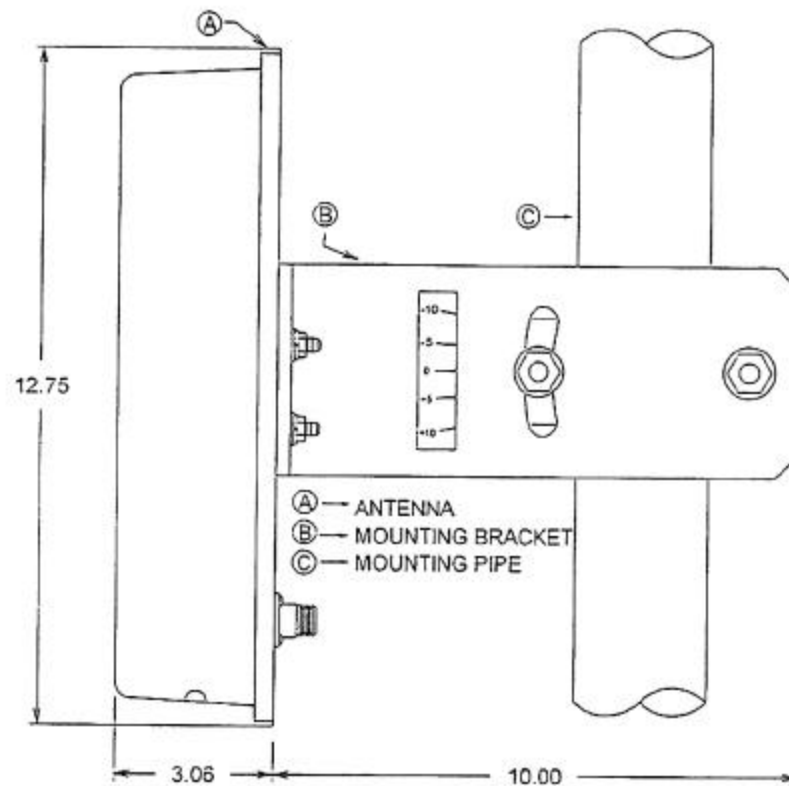
Nemko EESI, Inc.		11696 Sorrento Valley Road, Suite. F, San Diego, CA 92121 Phone (858) 793-9911 Fax (858) 259-7170		
DATE	DOCUMENT NAME	SUBMITTAL #	FCC ID	PAGE
12/20/99	Solectek Corporation SkyWay Wireless LAN Bridge Antenna Specifications	99-244	KA324WAN5	2

TA-2408



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	3

TA-2408 (Side View)



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	4

One 17dBi Tel-Tek Panel
From Vendors Charts

<u>Degree</u>	<u>17dBi Panel</u>	<u>TEST 01</u>
0	17	
10	14	
20	5	
30	2	
40	4	
50	1	
60	-7	
70	-5	
80	-8	
90	-10	
100	-12	
110	-18	
120	-18	
130	-23	
140	-23	
150	-23	
160	-23	
170	-23	
180	-18	
190	-18	
200	-18	
210	-23	
220	-23	
230	-25	
240	-25	
250	-18	
260	-13	
270	-11	
280	-8	
290	-5	
300	-2	
310	4	
320	5	
330	1	
340	6	
350	14.5	

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	5

**one 17 dBi Til-Tek Panel
Test 01**

