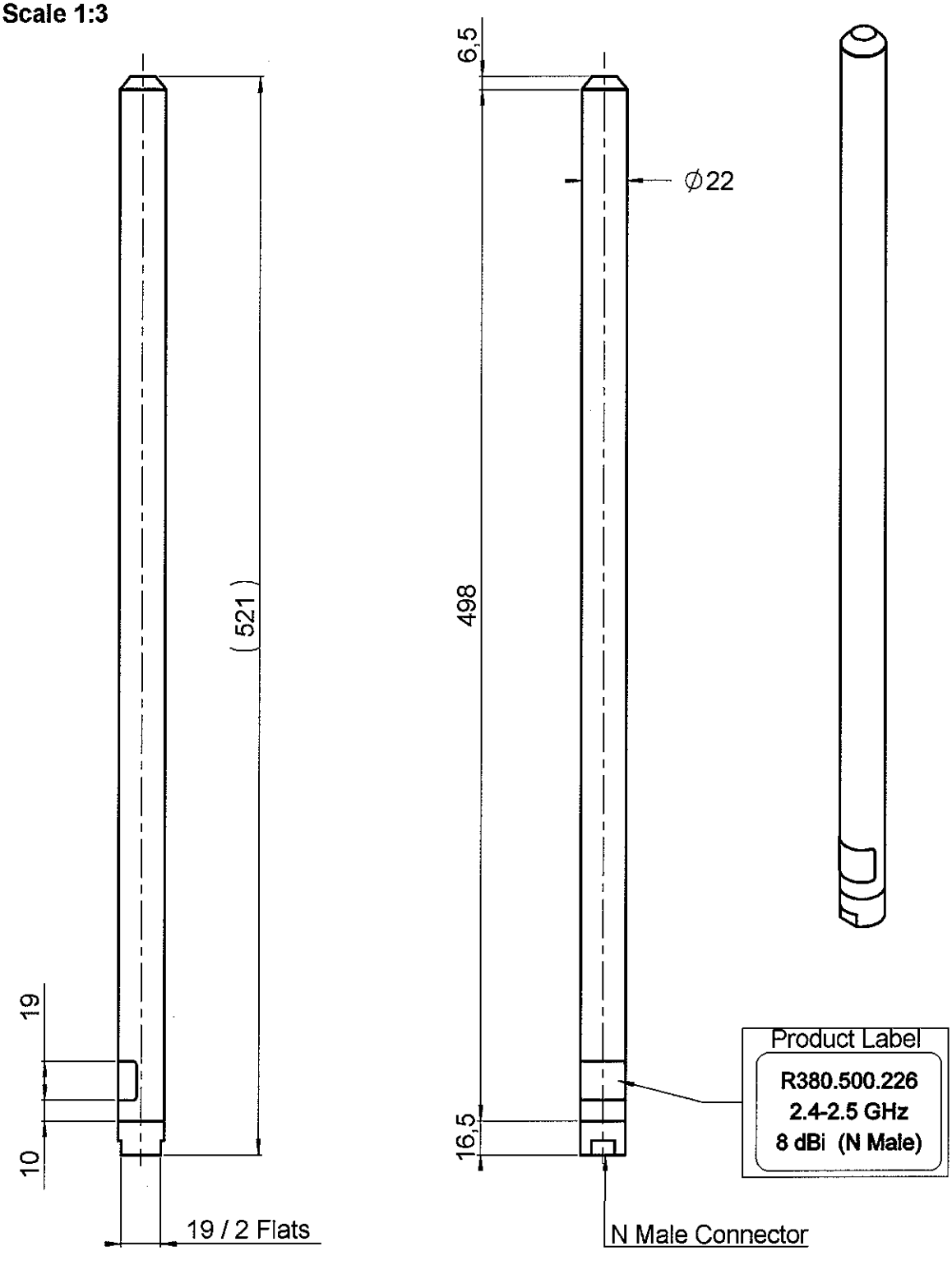
2.4 GHZ RADOME OMNI - 8DBI N-MALE

OMNIDIRECTIONAL ANTENNA

R380.500.226

Series : ANTENNA

Scale 1:3



All dimensions are in mm

Issue : 0523 A

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

RADIALL/LARSEN
antenna technologies

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Series : **ANTENNA**

ELECTRICAL CHARACTERISTICS

Frequency :	**2.4-2.5**	GHz
Nominal Impedance :	**50**	Ω
VSWR :		
Normal Conditions :	**1.5**	Max
Icing Conditions :	**1.7**	Max
Omni cut plane gain measurement over the frequency band .		
Average Gain :	**8**	dBi ±0.5dB
Radiation Pattern :		
360° Omni-directional in the Horizontal Plane .		
Undulation Ratio in the Horizontal Plane :	**1.6**	dB (Typ)
-3 dB beamwidth in the Vertical Plane :	**14**	° ± 1 °
Cross Polarization level :		
Horizontal Plane :	**>23**	dB
Vertical Plane :	**>23**	dB
Electrical tilt across band :	**0**	°
Polarization :	**VERTICAL**	
Power withstanding :	**4**	W
DC Grounding :	**YES**	
Connector type :	**N Male**	

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MECHANICAL CHARACTERISTICS

Plastic radome :	**Acrylonitrile Styrene Acrylate (ASA)**
	UL File-N°. E41871 (UL 94 – HB)
Color :	**PANTONE COOL GRAY 1C**
Ingress Protection :	**IP 67**
Weight :	**160** g
Wind-loading in accordance with the ETS 300 019-1-4.1E:	**150** Km/h
Overall length :	**532** mm
Fixing system :	**By Plugging on N Female Receptacle**

ENVIRONMENTAL CHARACTERISTICS

Transportation :	In accordance with the ETS 300-019-1-2 T2.3
Temperature :	
Stationary :	**-40/+55** °C (1), (2)
Cyclic :	**-40°C - +55°C** Rate 0.5°C/min (3)
Humidity :	
Stationary :	**93%** @ 30° C (4)
Vibration :	
Sinusoidal :	**± 3** mm / 10 m/s^2 (5)
Shocks :	**250** m/s^2 (6)
Salt mist :	**22 Hours** 40°C 93% HR
	72 Hours 23°C 45-55% HR (7)
Drop test :	**1 & 3** m (8)

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TESTS ENVIRONMENTAL

Test report n° 2002-46-8549

(1) Tests following IEC 68-2-1 Ad
Duration: 16 hours @ -40° C

(2) Tests following IEC 68-2-2 Bd
Duration: 16 hours @ +55° C

(3) Tests following IEC 68-2-14 Nb
temperature changing rate: 0.5°C/min
time at each temperature: 16 hours
6 cycles

(4) Tests following IEC 68-2-3
Stationary : 93% @ +30° C during 21 days

(5) Tests following IEC 68-2-6 Fc
5 to 9 Hz : 3mm peak, 9 to 200 Hz : 10 m/s^2
variation : 1 Octave/min.
5 cycles 5-200-5 Hz on each of the 2 axes

(6) Tests following IEC 68-2-29 Eb
Half sinus shocks, duration: 6 ms
500 bumps in each of the 3 axes

(7) Tests following IEC 68-2-52 Kb
Salted solution atomized during 2 hours
Concentration : 5% / 6.5 < pH < 7.2 @ 20°C
Solution collected : 1 < v < 2mL/h

(8) Tests following IEC 68-2-32 Ed
Height : 1 m and 3 m
2 Drops along 3 directions

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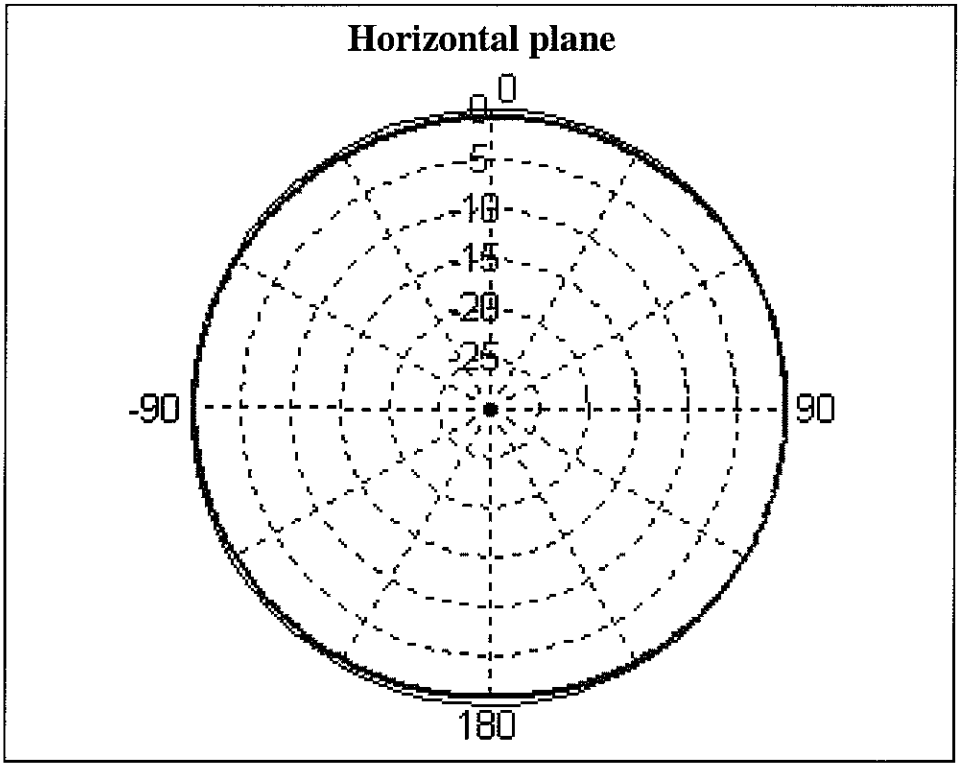
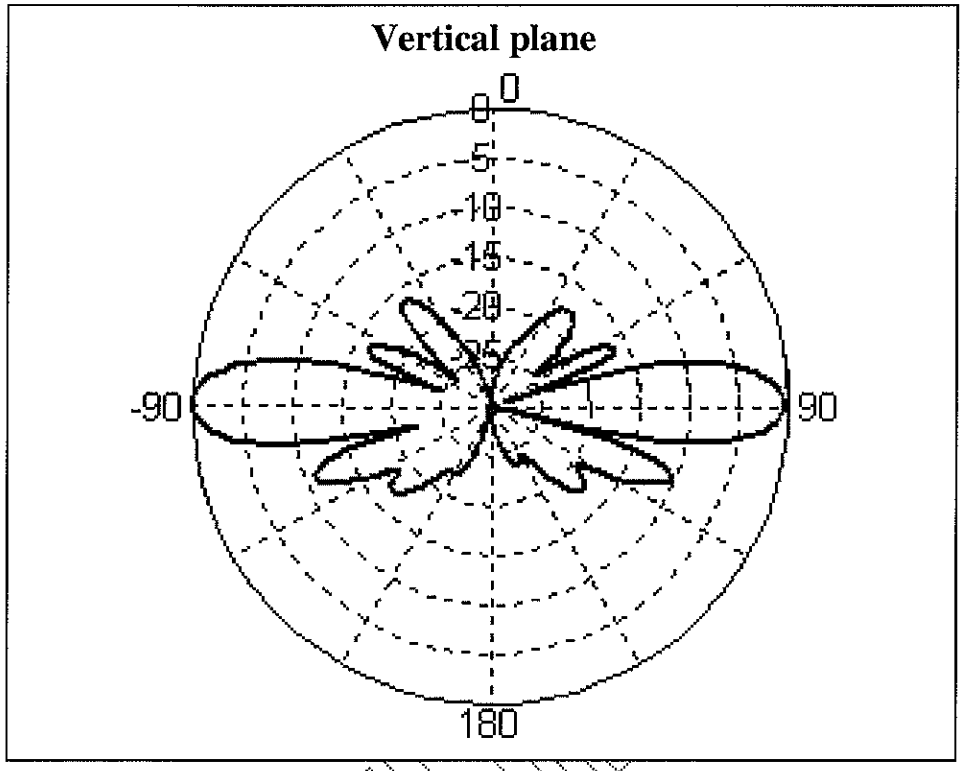
CURVES





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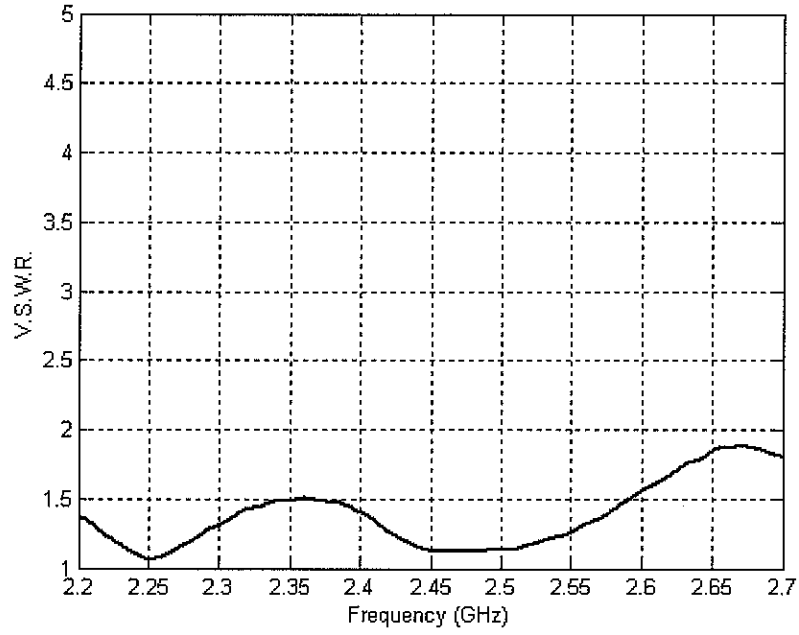
V.S.W.R



Radiating Element Average Gain