

# LOW COST PLANAR ANTENNA ARRAYS

## 1.8 to 5.8 GHz

Tel: 1-206-574-0900

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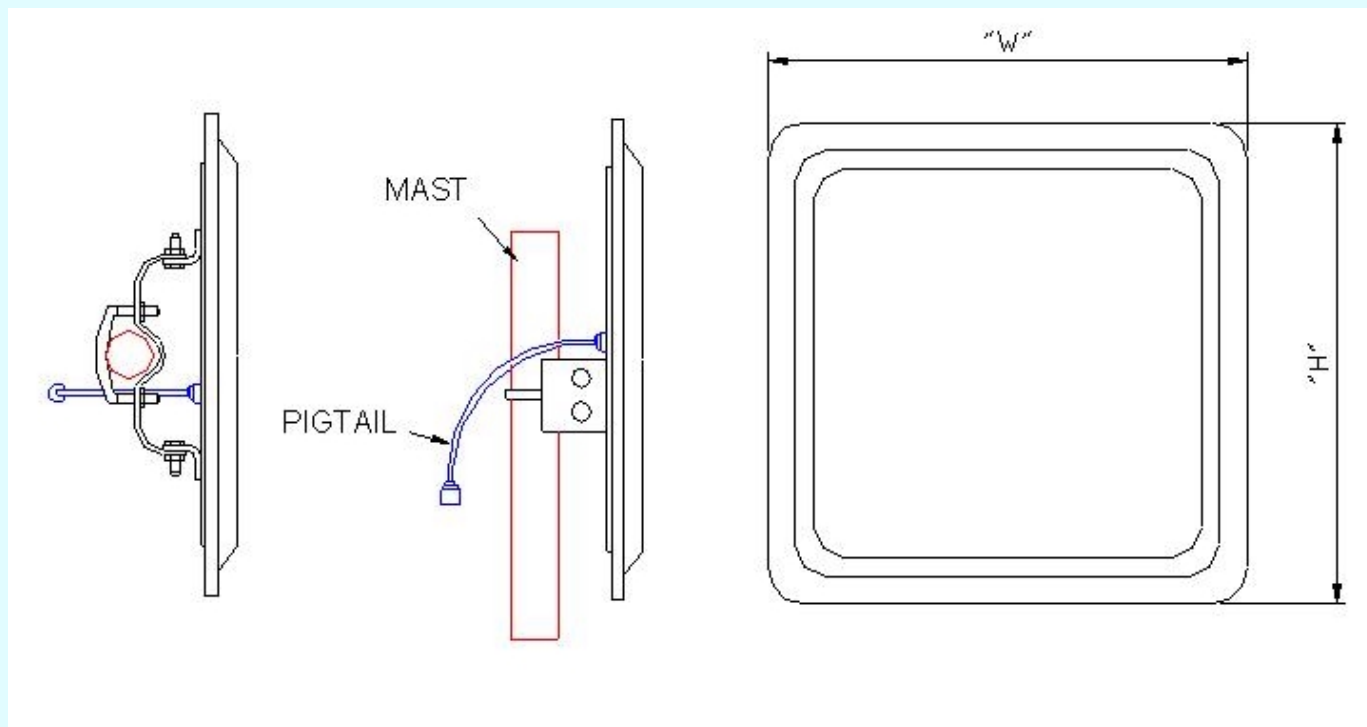
<http://www.dorado-intl.com>

### FEATURES:

CROSS-POLARIZATION	≤ -20dB
FRONT-TO-BACK RATIO	25dB
POWER HANDLING	20 WATTS
VSWR	≤ 1:1.60
ENVIRONMENTAL STABILITY	HIGH

### PLANAR ARRAY (PATCH) ANTENNAS

Frequency Range (GHz)	Gain dBi	Beamwidth		Sidelobe	Connector	Size (inches)			Model Number
		Az	EI			H	W	D	
1.80-1.90	10.0±0.5	40.0°	40.0°	-13 dB	Type N	7.48	7.48	0.80	PA1.8-02
1.80-1.90	12.0±0.5	32.0°	32.0°	-13 dB	Type N	11.40	11.40	0.80	PA1.8-01
2.10-2.30	15.0±0.5	25.0°	25.0°	-13 dB	Type N	11.40	11.40	0.80	PA2.1-02
2.10-2.30	27.5±0.5	21.0°	21.0°	-13 dB	Type N	15.35	15.35	0.80	PA2.1-01
2.30-2.50	15.5±0.5	24.0°	24.0°	-13 dB	Type N	11.40	11.40	0.80	PA2.3-02
2.30-2.50	18.0±0.5	19.0°	19.0°	-13 dB	Type N	15.35	15.35	0.80	PA2.3-01
2.30-2.70	18.5±0.5	18.0°	18.0°	-13 dB	Type N	15.35	15.35	0.80	PA2.4-01
2.40-2.70	15.5±0.5	60.0°	6.7°	-13 dB	Type N	36.22	7.87	1.20	PA2.5SA
2.50-2.70	16.0±0.5	23.0°	23.0°	-13 dB	Type N	11.40	11.40	0.80	PA2.5-02
2.50-2.70	18.5±0.5	18.0°	18.0°	-13 dB	Type N	15.35	15.35	0.80	PA2.5-01
3.40-3.70	18.5±0.5	18.0°	18.0°	-13 dB	Type N	11.40	11.40	0.80	PA3.4-02
3.40-3.60	19.5±0.5	18.0°	18.0°	-13 dB	Type N	11.40	11.40	0.80	PA3.5-02
3.40-3.70	15.5±0.5	60.0°	6.7°	-13 dB	Type N	22.20	5.71	1.20	PA3.5-SA
5.70-5.80	25.0±0.5	7.0°	7.0°	-13 dB	Type N	15.35	15.35	0.80	PA5.8-01



# HIGH PERFORMANCE PLANAR ANTENNA ARRAYS

## 24 to 94.4 GHz

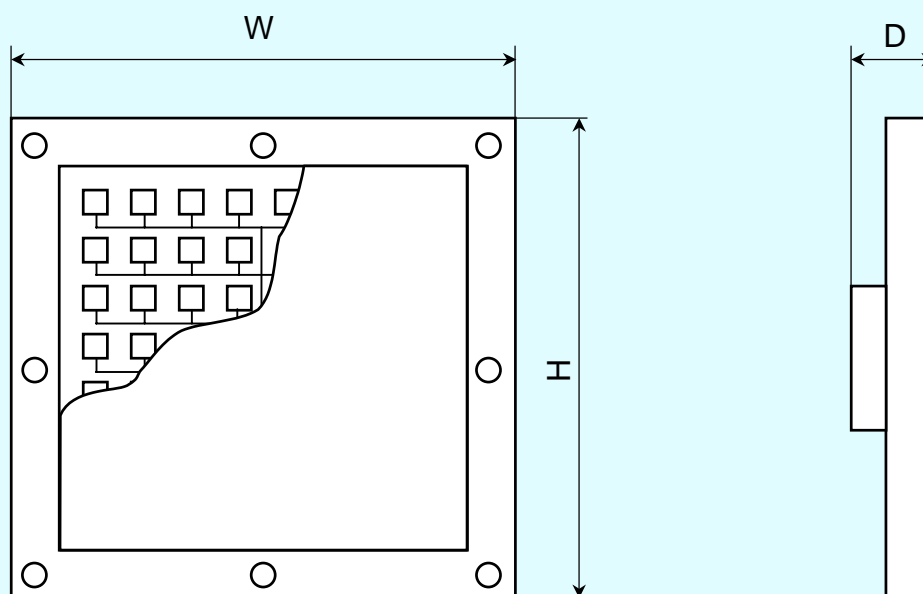
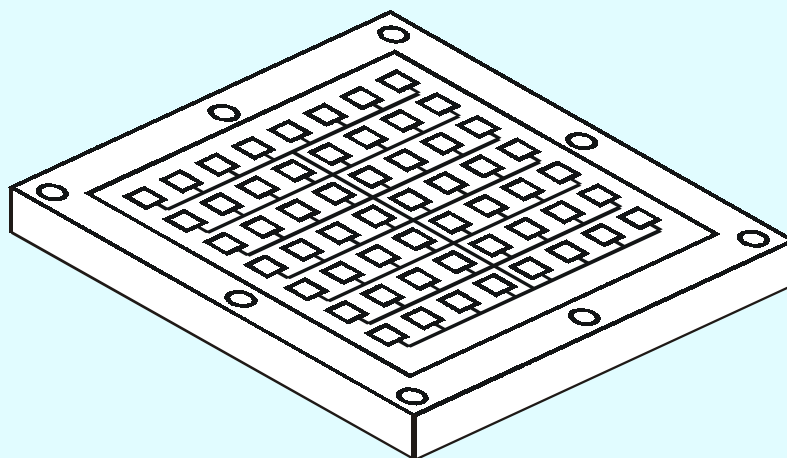


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### PLANAR ARRAY (PATCH) ANTENNAS

Frequency Range (GHz)	Gain DBi	Beamwidth		Sidelobe	Connector	Size (inches)			Model Number
		Az	EI			H	W	D	
24.00-24.25	19.0	14.0°	14.0°	-20 dB	WR-42	3.40	2.75	0.50	PLA24-1
24.00-24.25	21.0	11.0°	11.0°	-20 dB	WR-42	3.50	3.50	0.50	PLA24-2
24.00-24.25	23.0	9.0°	9.0°	-20 dB	WR-42	4.00	4.00	0.50	PLA24-3
27.85-28.15	30.0	4.0°	4.0°	-15 dB	WR-28	10.25	10.25	0.60	PLA28-5
34.85-35.15	29.0	4.0°	4.0°	-18 dB	WR-28	5.50	5.50	0.50	PLA35-2
37.85-38.15	30.0	4.0°	4.0°	-15 dB	WR-28	7.25	7.25	0.50	PLA38-5
41.3-41.70	29.0	2.5°	2.5°	-25 dB	WR-22	7.25	7.25	0.50	PLA41-1
59.75-60.25	29.0	3.5°	3.5°	-20 dB	WR-15	5.00	5.00	0.50	PLA60-1
59.75-60.25	26.0	4.0	7.0	-20 dB	WR-15	3.25	1.80	0.50	PLA60-2
76.25-76.75	23.0	11.0°	4.0°	-20 dB	WR-10	1.50	3.00	0.50	PLA77-1
76.25-76.75	25.0	7.0°	4.0°	-20 dB	WR-10	2.00	3.00	0.50	PLA77-2
76.25-76.75	27.0	5.5°	12.0°	-20 dB	WR-10/WR-10*	2.00	3.00	0.50	PLM77-3*
93.70-94.40	26.0	5.0°	5.0°	-17 dB	WR-10	2.00	2.00	0.50	PLA94-1

**NOTE:**

\* THIS IS A MONOPULSE ANTENNA WITH A "Σ" AND "Δ" OUTPUTS

# PLANAR ANTENNA PA2.3-02

## 2.3 to 2.5 GHz



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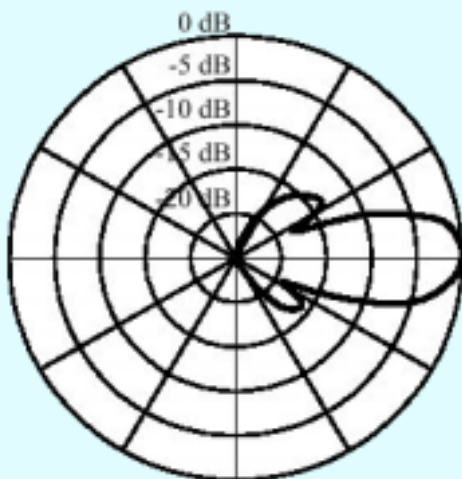
<http://www.dorado-intl.com>

### TYPICAL SPECIFICATION

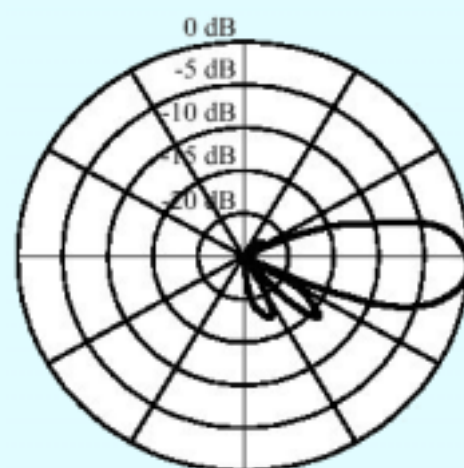
Operating Frequency	2.3 ... 2.5 GHz
Gain	15.5 ± 0.5 dBi
Beamwidth	24° ± 1°
Front-to-back ratio	25 dB
Cross-polarization	≤ -20dB
Power handling	20 W
VSWR (50 Ω)	≤ 1.6 : 1
Connector	N-type
Dimensions	≤ 290x290x25 mm
Weight	≤ 0.9 kg
Environmental Stability	High



#### H-Plane Pattern



#### E-Plane Pattern



# PLANAR ANTENNA PA2.5-01 2.5 to 2.7 GHz



Tel: 1-206-574-0900

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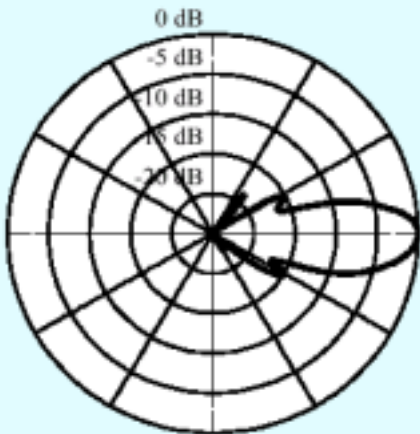
E-mail: doradoint@aol.com

<http://www.dorado-intl.com>

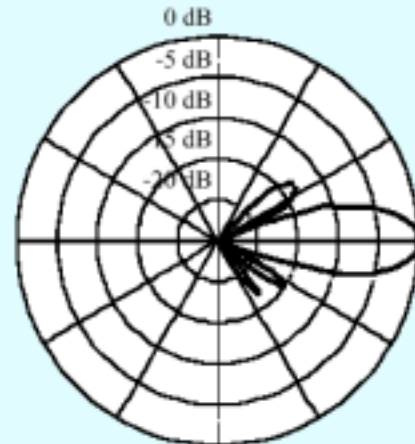
TYPICAL SPECIFICATION	
Operating Frequency	2.5 ... 2.7 GHz
Gain	18.5 ± 0.5 dBi
Beamwidth	18° ± 1°
Front-to-back ratio	25 dB
Cross-polarization	≤ -20dB
Power handling	20 W
VSWR (50 Ω)	≤ 1.6 : 1
Connector	N-type
Dimensions	≤ 390x390x25 mm
Weight	≤ 1.3 kg
Environmental Stability	High



H-Plane Pattern



E-Plane Pattern



# PLANAR ANTENNA PA2.5-02

## 2.5 to 2.7 GHz



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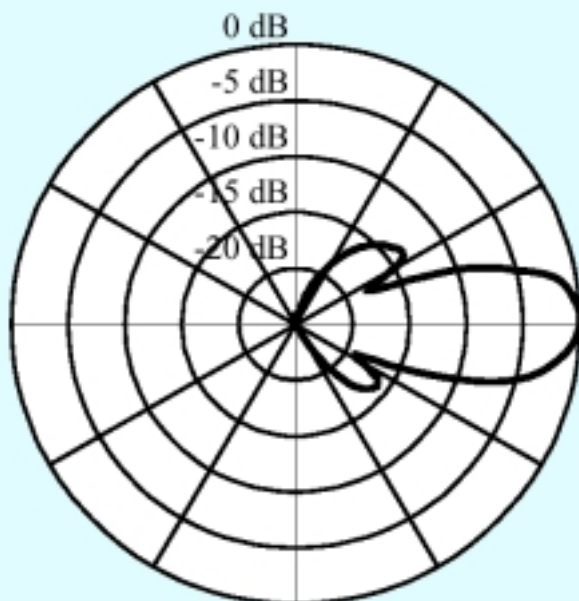
<http://www.dorado-intl.com>

### TYPICAL SPECIFICATION

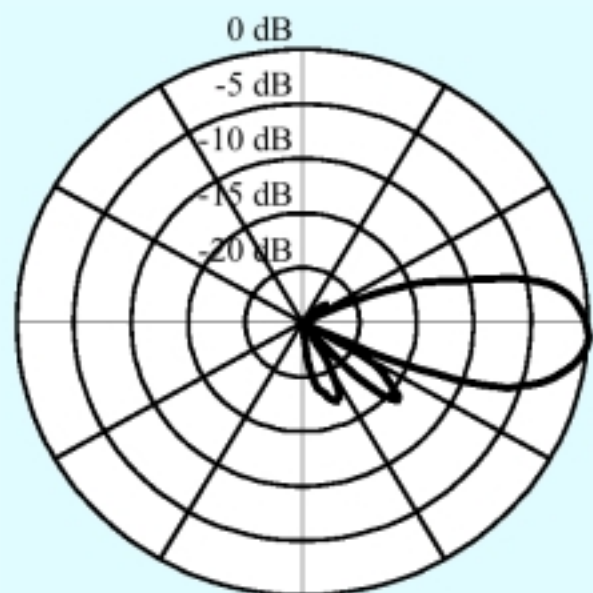
Operating Frequency	2.5 ... 2.7 GHz
Gain	16 ± 0.5 dBi
Beamwidth	23° ± 1°
Front-to-back ratio	25 dB
Cross-polarization	≤ -20dB
Power handling	20 W
VSWR (50 Ω)	≤ 1.6 : 1
Connector	N-type
Dimensions	≤ 290x290x25 mm
Weight	≤ 0.9 kg
Environmental Stability	High



#### H-Plane Pattern



#### E-Plane Pattern



# PLANAR ANTENNA FOR BASE TELECOMMUNICATION STATION PA2.5SA 2.4 to 2.7 GHz

Tel: 1-206-574-0900

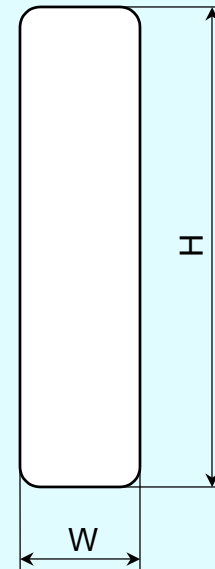
Fax: 1-206-574-0912

E-mail: doradoint@aol.com

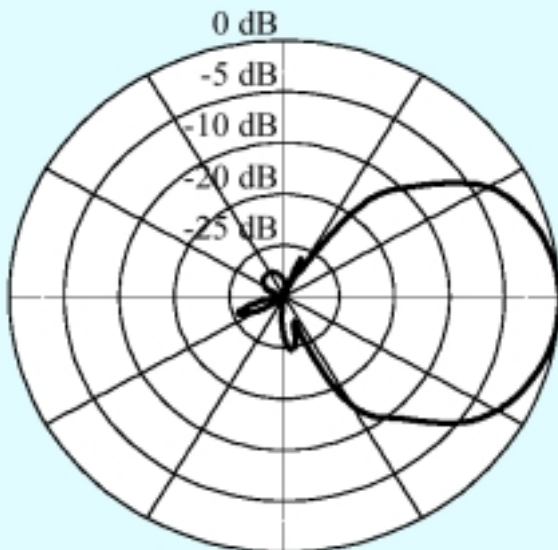
<http://www.dorado-intl.com>

## TYPICAL SPECIFICATION

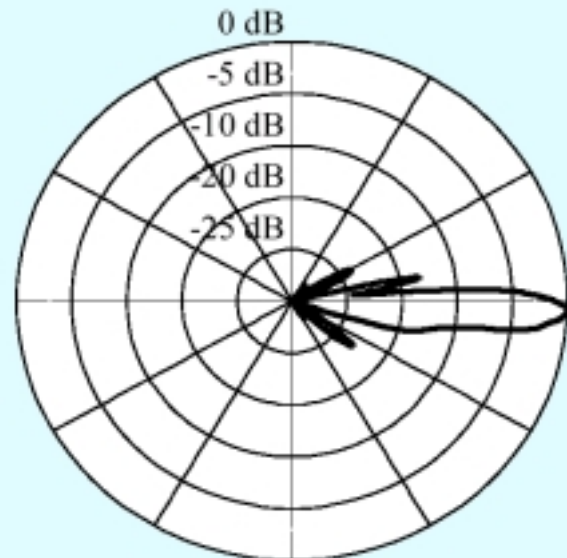
Operating Frequency	2.4 ... 2.7 GHz
Gain	$15.5 \pm 0.5$ dBi
Beamwidth az	$60^\circ \pm 3^\circ$
Beamwidth el	$6.7^\circ \pm 0.3^\circ$
Front-to-back ratio	25 dB
Cross-polarization	$\leq -20$ dB
Power handling	20 W
VSWR ( $50 \Omega$ )	$\leq 1.6 : 1$
Connector	N-type
Dimensions (WxH, mm)	200x920 mm
Thickness	$\leq 25$ mm
Weight	1.8 kg
Environmental Stability	High



### H-Plane Pattern



### E-Plane Pattern

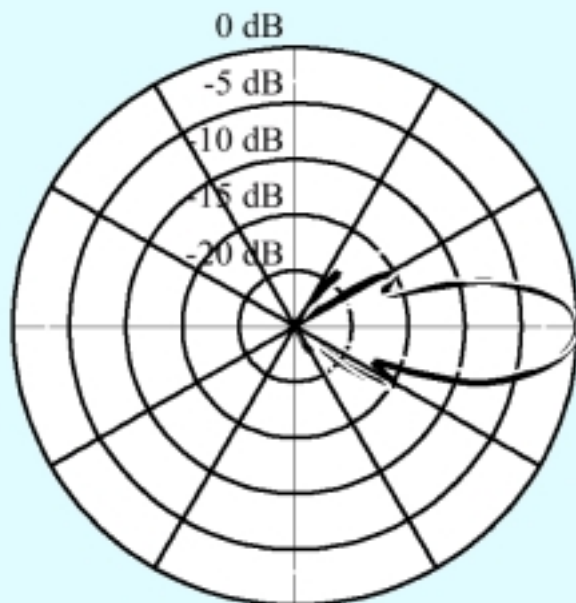




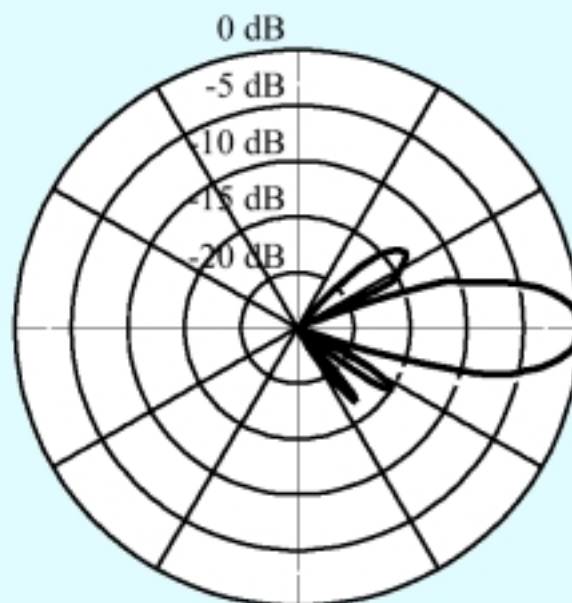
TYPICAL SPECIFICATION	
Operating Frequency	3.4 ... 3.7 GHz
Gain	$18.5 \pm 0.5$ dBi
Beamwidth	$18^\circ \pm 1^\circ$
Front-to-back ratio	25 dB
Cross-polarization	$\leq -20$ dB
Power handling	20 W
VSWR (50 $\Omega$ )	$\leq 1.6 : 1$
Connector	N-type
Dimensions	$\leq 290 \times 290 \times 25$ mm
Weight	$\leq 0.9$ kg
Environmental Stability	High



**H-Plane Pattern**



**E-Plane Pattern**



# PLANAR ANTENNA FOR BASE TELECOMMUNICATION STATION PA3.5SA 3.4 to 3.7 GHz

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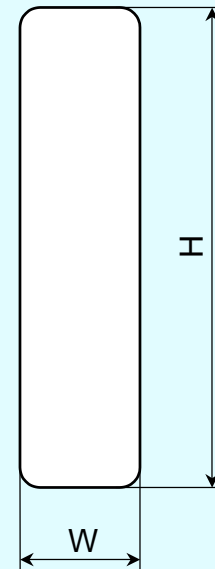
Fax: 1-206-574-0912

E-mail: doradoint@aol.com

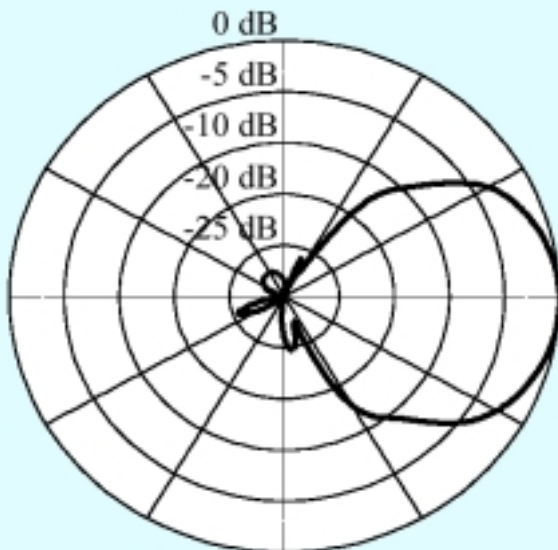
<http://www.dorado-intl.com>

## TYPICAL SPECIFICATION

Operating Frequency	3.4 ... 3.7 GHz
Gain	15.5 ± 0.5 dBi
Beamwidth az	60° ± 3°
Beamwidth el	6.7° ± 0.3°
Front-to-back ratio	25 dB
Cross-polarization	≤ -20dB
Power handling	20 W
VSWR (50 Ω)	≤ 1.6 : 1
Connector	N-type
Dimensions (WxH, mm)	145x640 mm
Thickness	≤ 25 mm
Weight	1.0 kg
Environmental Stability	High



### H-Plane Pattern



### E-Plane Pattern

