

Microceptor® Antennas

Flat Planar Array Models

Designed to fill the need for a high performance antenna with a smaller, more attractive look, the Microceptor® meets the need for an aesthetically pleasing antenna with highly discriminative patterns. The product is small, lightweight, unobtrusive, and concentrates the radiation away from the rear side of the antenna. This antenna offers an attractive solution for fixed subscriber and base station applications, as well as a high performance alternative to Yagi style antennas. The antenna is an excellent choice for fixed data and telephony systems where user-specific content drives cellular and sectorized system architectures. Both cosmetic covers and premise mounts are available.

Features and Options

- *Patented feed design — superior directivity in a low profile package*
- *Small, aesthetically pleasing*
- *Excellent cross-pole, side lobe, and back lobe rejection*
- *Low wind load*
- *Up to 60° tilt adjust*

Ordering Information

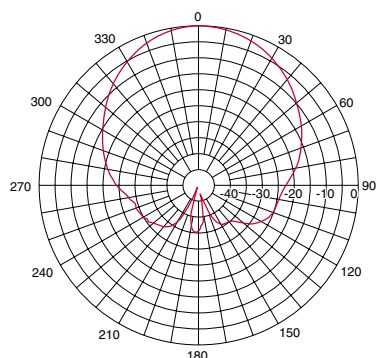
Frequency band (MHz)	Gain	W/tilt Type No.	W/o tilt Type No.
2100-2700	13 dBi	DL-2122	DL-2127
2100-2700	16 dBi	QD-2122	QD-2127
2400-2500	11 dBi	DL-2412	DL-2410
2400-2500	13 dBi	DL-2402	DL-2400
2400-2500	16 dBi	QD-2402	QD-2400



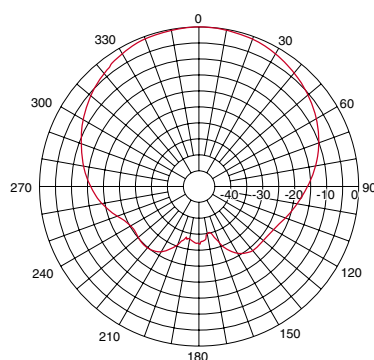
Model DL-2402



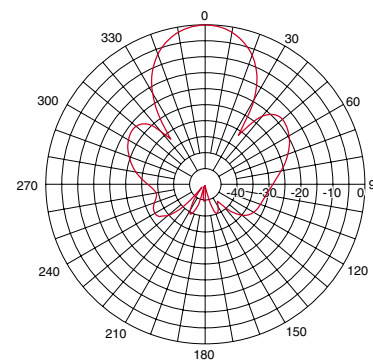
Model QD-2402



DL-2400
Gain = 13.22 dBi
Frequency = 2.4 GHz
10 dB BW = 94.5 Degrees
3 dB BW = 47.2 Degrees



DL-2410
Gain = 11.24 dBi
Frequency = 2.4 GHz
10 dB BW = 138.2 Degrees
3 dB BW = 76.1 Degrees



QD-2400
Gain = 15.41 dBi
Frequency = 2.5 GHz
10 dB BW = 47.3 Degrees
3 dB BW = 26.4 Degrees

Microceptor® Flat Planar Array Antennas

Antenna Model Number	DL-2410/2412	DL-2122/2127/2400/2402	QD-2122/2127/2400/2402
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Electrical Specifications

Gain (dBi)	11.5 ± 1 dB	13 ± 1 dB	16 ± 1 dB
Polarization Isolation, dB	>25	>25	>30
Sidelobe Suppression, dB	>17	>17	>17
-3 dB Beamwidth, (° Vr : ° Hz)	75 : 27	47 : 27	27 : 27
-10 dB Beamwidth, (° Vr : ° Hz)	138 : 48	89 : 46	47 : 47
Front/Back Ratio, dB	>25	>25	>30
Impedance, Ohms	50	50	50
VSWR	1.4:1	1.4:1	1.4:1

Mechanical Specifications

Output Connector	"N" type female	"N" type female	"N" type female
Mounting, in (m)	1-2 (.025-.05) O.D. pipe	1-2 (.025-.05) O.D. pipe	1-2 (.025-.05) O.D. pipe
Vertical Tilt	0-60° (optional)	0-60° (optional)	0-60° (optional)
Operational Wind Load	75 mph 25 lb (11.34 kg)	75 mph 25 lb (11.34 kg)	75 mph 39.4 lb (17.87 kg)
Survivable Wind Load	140 mph 49.4 lb (22.4 kg)	140 mph 49.4 lb (22.4 kg)	140 mph 77 lb (34.92 kg)
Radome	ABS	ABS	ABS
Reflector Type	Planar array	Planar array	Planar array
Reflector Material	Aluminum	Aluminum	Aluminum
Dimensions, in (m)	7.5 x 11 (.19 x .28)	7.5 x 11 (.19 x .28)	10.75 x 11 (.267 x .28)
Weight - Antenna, lb (kg)	1.4 (.64)	1.4 (.64)	2 (.91)
Weight - Mount, lb (kg)	1 (.45)	1 (.45)	1 (.45)


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