

DATASHEET

Patent Pending

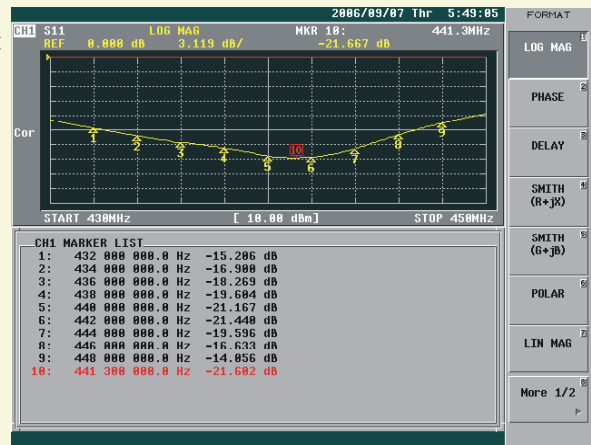
Antenna model UL-4400-319

A broadband, rugged, mobile radio antenna featuring a high ESD (Electro-Static Discharge) isolation. With modest dimensions of 1.5"/4 cm (OD) x 4"/10 cm (height), this antenna radiates with a typical peak omnidirectional gain of +4 dBil, when mounted on a large metal surface of at least 16"/40 cm radius. This antenna will survive a 20 ft drop onto asphalt and continue operating. Internally, the radiating element is DC grounded and the feedpoint is DC isolated beyond 1 kV.

Frequency range:	430-450 MHz
Coverage:	Omni-directional, low azimuthal ripple
Polarization:	Linear, Vertical
Gain:	+4 dBil
Nominal Impedance:	50 ohm (RF), Open Circuit (DC) 1 kV isolation
VSWR:	2.0
Connector:	NMO, Female
Dimensions:	Housing 3.8 cm (1.5") OD x 10.3 cm (4.05") h Bottom flange 5 cm (2") OD x 3 mm (0.12") h
Mounting:	direct NMO connector mount
Operating Temperatures:	-40°C to +85°C
Shock:	Operates after drop from 6 m/20 ft onto asphalt
Weight:	100 g / 0.25 lbs
Shipping Weight:	200 g / 0.45 lbs

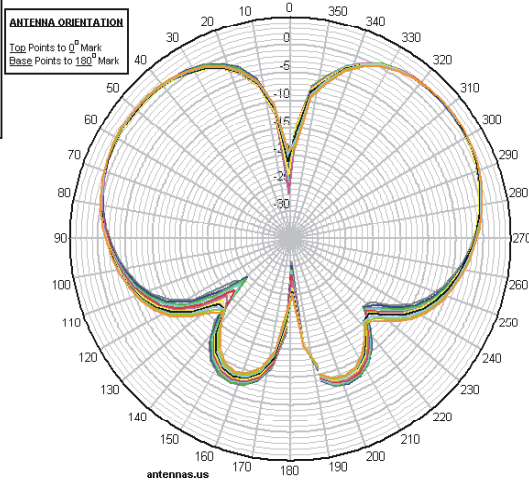
NOTES:

Requires a ground plane (normally mounts on a metal body)
Its large bandwidth allows this antenna to be used for the surveillance of signals ranging from 200 MHz to 1 GHz



430
432
434
436
438
440
442
444
446
448
450

UL-4400-319 over a 36" diameter GP
NMO-mounted Mobile Antenna
Elevation Plot: 430 to 450 MHz

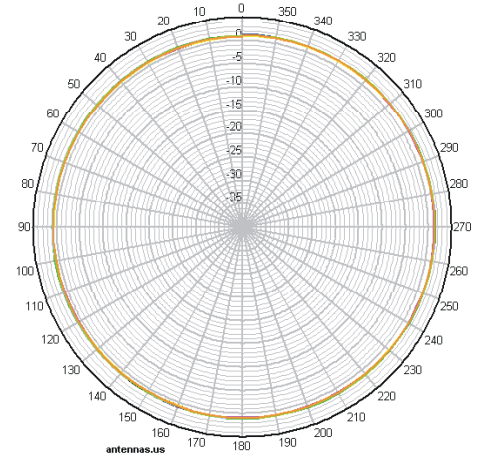


FREQ (MHz)	Max. Gain (dB)
430.00	1.95
432.00	2.06
434.00	2.12
436.00	2.12
438.00	2.17
440.00	2.16
442.00	2.16
444.00	2.22
448.00	2.29
450.00	2.31

430
432
434
436
438
440
442
444
446
448
450

FREQ (MHz)	Avg. Gain (dB)	Ripple (dB)
430.00	1.08	0.63
432.00	1.22	0.66
434.00	1.23	0.66
436.00	1.15	0.67
438.00	1.05	0.71
440.00	0.98	0.66
442.00	1.00	0.71
444.00	1.10	0.73
446.00	1.16	0.71
448.00	1.16	0.63
450.00	1.03	0.68

UL-4400-319 over a 36" diameter GP
NMO-mounted Mobile Antenna
Azimuth Plot: 430 to 450 MHz



Specifications subject to change without notice

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