

UHF White Space Antenna

470 – 930 MHz

Model UHF-1 Antenna

The Carlson Wireless UHF antenna is laser cut from solid aluminum (0.187") for superior strength required for commercial applications. It includes 48 elements to provide high gain across a 460 MHz bandwidth. It is ideal for Fixed TV band devices (TVBD) which can be assigned any frequency in the channel 14-51 range by an FCC-approved database. It can also be used for the Public Safety (763-775/793-805 MHz) and the 900 MHz Unlicensed band (902 – 928 MHz). It is typically used at remote stations where directivity is required. It's unique log-periodic design provides excellent performance over the entire band.

Specifications	Units	Value
Electrical		
Frequency Range	MHz	470-930
Nominal Gain	dBi	10
Number of Elements		48
Polarization		H or V
Horizontal Beamwidth	Deg	65
Vertical Beamwidth	Deg	65
Front to Back Ratio	dB	20
Power Rating	W	50
Impedance	Ohms	50
Lightning Protection		DC Gnd
Connector		Type N(F)
Mechanical		
Length	in/cm	
Width	in/cm	
Weight	lbs/kg	
Rated Wind Velocity (No ice)	mph	100/161
Rated Wind Velocity (0.5" ice)	m/hr-km/hr	85/137
Pole Mast OD Supported	in/cm	1-2/2.5-5

Specifications subject to change without notice

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KTS
Wireless  Product Vision

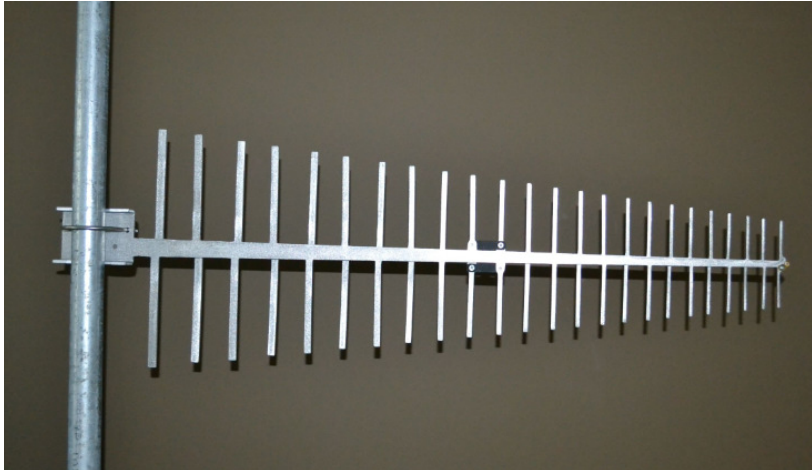


CARLSON WIRELESSTM
Microwave Broadband and Telephone

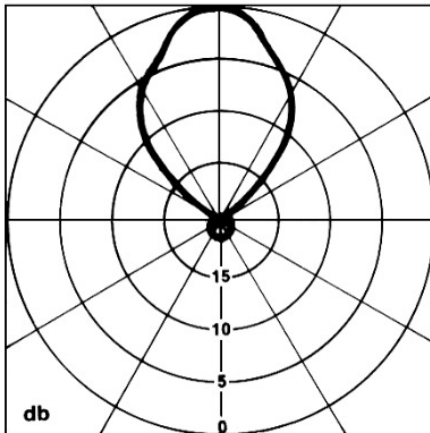
phone: 707.822.7000

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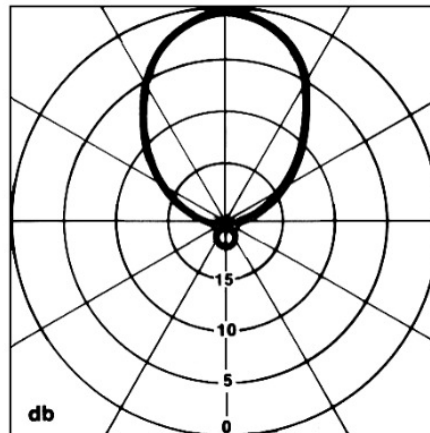
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Typical UHF Radiation Patterns



E-Plane



H-Plane

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