

SD310-H

1 dipole antenna, 2.0/1.5 dBd gain, HD, 370-512 MHz

- Covers 370-512 MHz in 2 band splits
- 1.5 dBd gain, elliptical (bi-directional) pattern (1/2 wave), 2.0 dBd gain offset pattern (1/4 wave)
- Heavy duty wind ratings, 75W power handling
- Recommend using an SMK-125-A7 side mounting kit

The SD310 series of antennas is unique in its high efficiency and exceptionally wide bandwidth, covering the frequency range of 370-512 MHz at a VSWR of 1.5:1 or better. Because of its bandwidth, the SD310 series is well suited for multicoupled systems.

Application Notes

- SD310-HF2P4SNM specifications are shown at the series level

Model	Description	Pattern
SD310-HF1P2SNM	1.5 dBd gain, elliptical, N (male) connector, 370-460 MHz	Bi-directional
SD310-HF1P4SNM	2.0 dBd gain, offset, N (male) connector, 370-460 MHz	Offset
SD310-HF2P2SNM	1.5 dBd gain, elliptical, N (male) connector, 406-512 MHz	Bi-directional
SD310-HF2P4SNM	2.0 dBd gain, offset, N (male) connector, 406-512 MHz	Offset



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Product Specification Sheet		SD310-H		Dated: 05-02-10

SD310-HF1P2SNM

SD310-HF1P4SNM

SD310-HF2P2SNM

SD310-HF2P4SNM

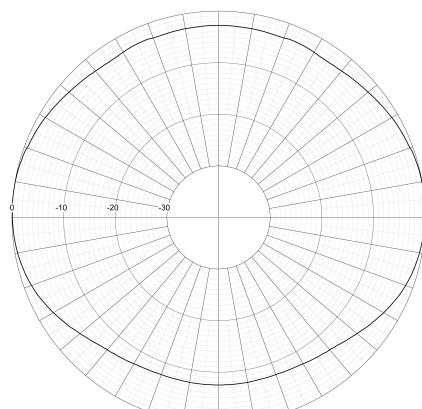
Electrical Specifications

Frequency Range, MHz	370 to 460	370 to 460	406 to 512	406 to 512
Gain (nominal), dBd (dBi)	1.5 (3.6)	2 (4.1)	1.5 (3.6)	2 (4.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Pattern	Bi-directional	Offset	Bi-directional	Offset
Horizontal beamwidth, degrees		224		224
Vertical beamwidth, degrees	68	68	68	68
Average Power Input (max), W	75	75	75	75
Lightning protection	DC ground	DC ground	DC ground	DC ground

Mechanical Specifications

Connector	N (male)	N (male)	N (male)	N (male)
Length/ Height, in (mm)	60 (1524)	60 (1524)	60 (1524)	60 (1524)
Width, in (mm)	16 (406)	10.3 (260)	16 (406)	10.3 (260)
Depth, in (mm)	3.5 (89)	3.5 (89)	3.5 (89)	3.5 (89)
Base pipe diameter, in (mm)	1.9 (48)	1.9 (48)	1.9 (48)	1.9 (48)
Base pipe mounting length, in (mm)	24 (610)	24 (610)	24 (610)	24 (610)
Weight, lbs (kg)	8 (3.6)	7.5 (3.4)	8 (3.6)	7.5 (3.4)
Actual Shipping weight, lbs (kg)	15 (6.8)	15 (6.8)	15 (6.8)	15 (6.8)
Shipping dimensions, in (mm)	83x5x20 (2108x127x508)	83x5x20 (2108x127x508)	62x19x4 (1575x483x102)	83x5x20 (2108x127x508)
Mounting hardware	clamps not supplied	clamps not supplied	clamps not supplied	clamps not supplied

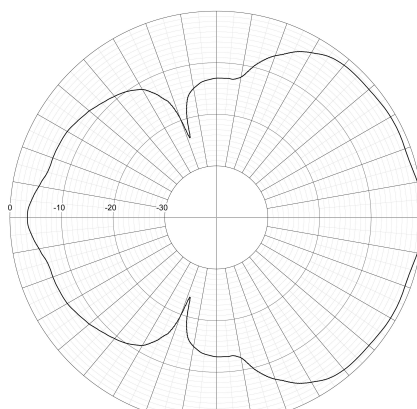
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MEASURED RADIATION PATTERN
Horizontal
Relative Gain - 10 dB per Division

SD310-HF1P2SNM

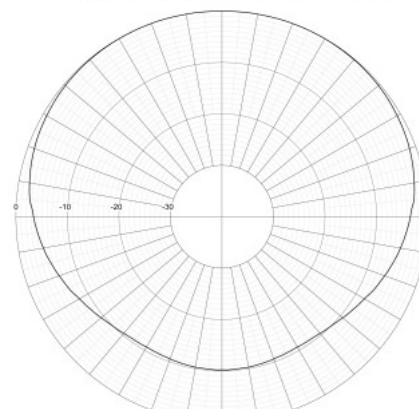
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MEASURED RADIATION PATTERN
Vertical
Relative Gain - 10 dB per Division

SD310-HF1P4SNM

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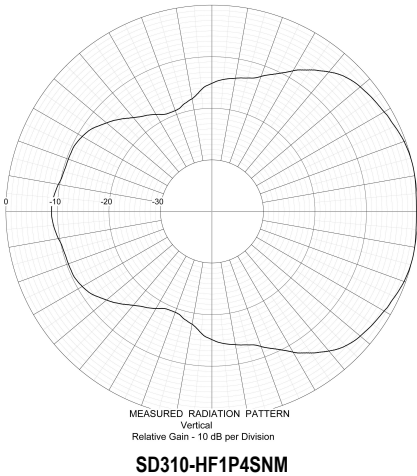


MEASURED RADIATION PATTERN
Horizontal
Relative Gain - 10 dB per Division

SD310-HF1P4SNM

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