

SD318-HL- PIM Certified 8 dipole antenna, 10 dBd gain, low PIM, HD, 370-512 MHz

- Industry-leading -150 dBc PIM rating, covers 370-512 MHz in 3 band splits
- 10 dBd gain offset pattern (1/4 wave) and elliptical (bi-directional) pattern (1/2 wave)
- Heavy duty wind ratings, 300W power handling

Application Notes

- SD318-HF2P4LDF specifications are shown at the series level

Model

[SD318-HF1P2LDF](#)

[SD318-HF1P4LDF](#)

[SD318-HF2P2LDF](#)

[SD318-HF2P4LDF](#)

[SD318-HF3P2LDF](#)

[SD318-HF3P4LDF](#)

Description

9.5dBd gain, elliptical, 370-430 MHz

10 dBd gain, offset, 370-430 MHz

9.5 dBd gain, elliptical, 406-470 MHz

10 dBd gain, offset, 406-470 MHz

9.5 dBd gain, elliptical, HD, 7/16 DIN (female) connector, 450-512 MHz

10 dBd gain, offset, HD, 7/16 DIN (female) connector, 450-512 MHz

Pattern

Bi-directional

Offset

Bi-directional

Offset

Bi-directional

Offset



Australian Representatives

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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SD318-HL- PIM Certified		Dated: 05-02-10

SD318-HF1P2LDF

SD318-HF1P4LDF

SD318-HF2P2LDF

SD318-HF2P4LDF

Electrical Specifications

Frequency Range, MHz	370 to 430	370 to 430	406 to 470	406 to 470
Gain (nominal), dBd (dBi)	9.5 (11.6)	10 (12.1)	9.5 (11.6)	10 (12.1)
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
Vertical beamwidth, degrees	9	9	9	9
Average Power Input (max), W		300		300
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150	-150	-150
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	40	60	64	64
Electrical tilt (available)	0	0	0	

Mechanical Specifications

Connector	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	240 (6096)	240 (6096)	240 (6096)	240 (6096)
Width, in (mm)	18.9 (480)	12.4 (315)	18.9 (480)	12.4 (315)
Depth, in (mm)	3.5 (89)	3.5 (89)	3.5 (89)	3.5 (89)
Base pipe diameter, in (mm)	2.4 (60)	2.4 (60)	2.4 (60)	2.4 (60)
Base pipe mounting length, in (mm)	46 (1168)	46 (1168)	46 (1168)	46 (1168)
Weight, lbs (kg)	60.5 (27.5)	58 (26.3)	60.5 (27.5)	58 (26.3)
Weight iced, lbs (kg)	90 (40.9)	80 (36.3)	90 (40.9)	80 (36.3)
Actual Shipping weight, lbs (kg)	85 (38.6)	85 (38.6)	85 (38.6)	85 (38.6)
Shipping dimensions, in (mm)	247x6x27 (6274x152x686)	247x6x27 (6274x152x686)	247x6x27 (6274x152x686)	247x6x27 (6274x152x686)
Mounting hardware	clamps not supplied	clamps not supplied	clamps not supplied	clamps not supplied

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SD318-HF3P2LDF

SD318-HF3P4LDF

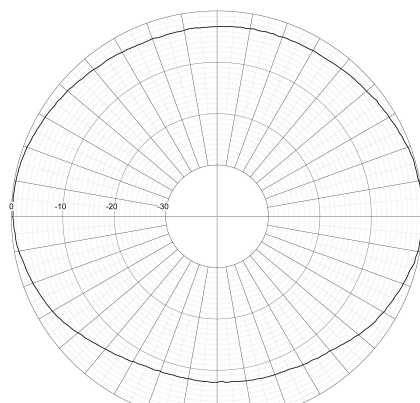
Electrical Specifications

Frequency Range, MHz	450 to 512	450 to 512
Gain (nominal), dBd (dBi)	9.5 (11.6)	10 (12.1)
Input VSWR (max)	1.5:1	1.5:1
Polarization	vertical	vertical
Pattern	Bi-directional	Offset
Vertical beamwidth, degrees	9	9
Average Power Input (max), W	300	300
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-150
Lightning protection	DC ground	DC ground
Bandwidth, MHz	72	72
Electrical tilt (available)		

Mechanical Specifications

Connector	7/16 DIN (female)	7/16 DIN (female)
Length/ Height, in (mm)	240 (6096)	240 (6096)
Width, in (mm)	18.9 (480)	12.4 (315)
Depth, in (mm)	3.5 (89)	3.5 (89)
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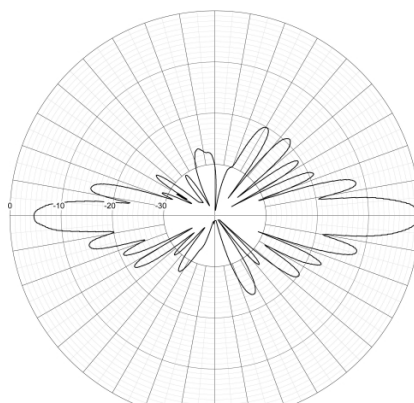
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MEASURED RADIATION PATTERN
Horizontal
Relative Gain - 10 dB per Division

SD318-HF1P2LDF

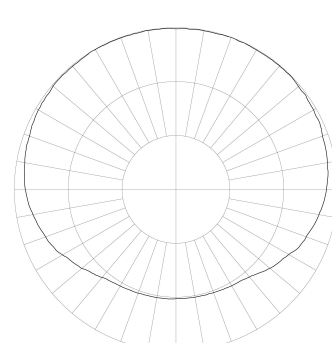
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MEASURED RADIATION PATTERN
Vertical
Relative Gain - 10 dB per Division

SD318-HF1P2LDF

SINCLAIR TECHNOLOGIES



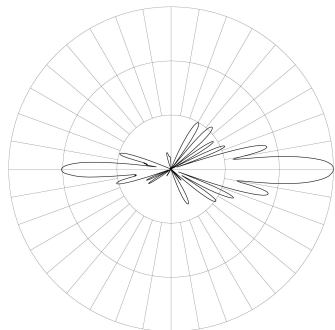
MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

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MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division
SD318-HF1P4LDF

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