

SP440

Enclosed log periodic data system antenna, 6 dBd gain, 800-1000 MHz

- Radome-enclosed antenna
- Suited for systems involving point-to-point, point-to-multi point and receive-only communications
- Ideal for use in data systems or in-building systems

Sinclair has developed a series of antennas for use in data systems. Since the antennas are radome-enclosed, they are protected from environmental degradation due to snow and ice which can render yagi antennas inoperable. The low profile makes these antennas inconspicuous: they can be mounted directly to a wall or terminal housing, or to a mast, pipe or other structure. Rugged but lightweight, these antennas impose only a modest wind-load, and can be expected to survive whatever conditions the surface or structure on which they are mounted will sustain.

Model

[SP440-SF1SNF](#)
[SP440-SF2SNF](#)
[SP4402-SF2SNF](#)

Description

6 dBd gain, N (female) connector, 928-956 MHz
5 dBd gain, N (female) connector, 800-1000 MHz
8 dBd gain, N (female) connector, 800-1000 MHz

Pattern

Directional
Directional
Directional



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Product Specification Sheet		SP440		Dated: 05-02-10

SP440-SF1SNF

SP440-SF2SNF

SP4402-SF2SNF

Electrical Specifications

Frequency Range, MHz	928 to 956	800 to 1000	800 to 1000
Gain (nominal), dBd (dBi)	6 (8.1)	5 (7.1)	8 (10.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical
Pattern	Directional	Directional	Directional
Horizontal beamwidth, degrees	90	95	90
Vertical beamwidth, degrees	60	65	33
Average Power Input (max), W	100	50	100
Lightning protection	DC ground	DC ground	DC ground
Bandwidth, MHz	28	200	200
Front-to-back ratio (typ), dB	25	25	25

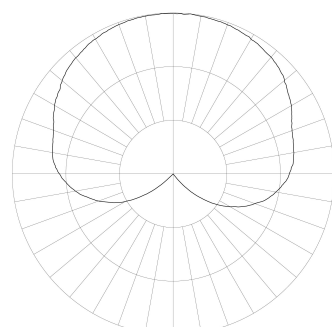
Mechanical Specifications

Connector	N (female)	N (female)	N (female)
Length/ Height, in (mm)	10.6 (268)	10.6 (268)	22.5 (572)
Width, in (mm)	2.9 (73)	2.9 (73)	2.9 (73)
Depth, in (mm)	8.5 (216)	8.5 (216)	2 (51)
Weight, lbs (kg)	2.5 (1.1)	2.5 (1.1)	5 (2.3)
Actual Shipping weight, lbs (kg)	5 (2.3)	5 (2.3)	5 (2.3)
Shipping dimensions, in (mm)	14x4x6 (356x102x152)	14x4x6 (356x102x152)	14x4x6 (356x102x152)
Mounting hardware	#130 clamp	#130 clamp	#130 clamp

Environmental Specifications

Temperature range, °F (°C)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)	-22 to +140 (-30 to +60)
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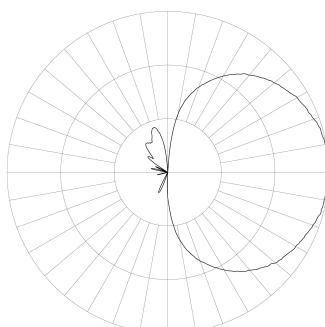
MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth

Relative Gain - 10 dB per Division

SP440-SF1SNF

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MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation

Relative Gain - 10 dB per Division

SP440-SF1SNF

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