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**SP470**

Panel directive antenna, 6.5-10.5 dBd gain, 806-960 MHz

- Compact panel antenna designed to meet micro-cell and ISP markets
- Inconspicuous profile, ABS plastic radome
- Horizontal or vertical polarization, 60 or 75 degree horizontal beamwidth

The SP470 series of panel antennas were designed to meet the needs of the micro-cell market. These compact radome-enclosed, horizontally-polarized antennas provide controlled directional coverage and are suitable for either pipe or wall mounting.



Model	Description	Pattern
<a href="#">SP470-SF1P60SNF</a>	8.5 dBd gain, N (female) connector, 806-870 MHz	Directional
<a href="#">SP470-SF2P60SNF</a>	8.5 dBd gain, N (female) connector, 824-894 MHz	Directional
<a href="#">SP470-SF4P60SNF</a>	8.5 dBd gain, N (female) connector, 890-960 MHz	Directional
<a href="#">SP470-SF4P75SNF</a>	6.5 dBd gain, N (female) connector, 900-920 MHz	Directional
<a href="#">SP470-SF4P75SNF(E2174)</a>	6.5 dBd gain, N (female) connector, 900-920 MHz	Directional
<a href="#">SP4701-SF3SNF(E8134)</a>	10 dBd gain, N (female) connector, 900-960 MHz	Directional

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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
<b>Telephone</b>	USA: 1 800 263 3275	International: +44 (0) 1223 42 03 03	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
<b>E-mail</b>	<a href="mailto:salesusa@sinctech.com">salesusa@sinctech.com</a>	<a href="mailto:salesuk@sinctech.com">salesuk@sinctech.com</a>	<a href="mailto:salesla@sinctech.com">salesla@sinctech.com</a>	<a href="mailto:salescan@sinctech.com">salescan@sinctech.com</a>
Product Specification Sheet		SP470		Dated: 05-02-10

[SP470-SF1P60SNF](#)

[SP470-SF2P60SNF](#)

[SP470-SF4P60SNF](#)

[SP470-SF4P75SNF](#)

**Electrical Specifications**

Frequency Range, MHz	806 to 870	824 to 894	890 to 960	900 to 920
Gain (nominal), dBd (dBi)	8.5 (10.6)	8.5 (10.6)	8.5 (10.6)	6.5 (8.6)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	horizontal	horizontal	horizontal	horizontal
Pattern	Directional	Directional	Directional	Directional
Horizontal beamwidth, degrees	60	60	60	75
Vertical beamwidth, degrees	45	45	45	55
Average Power Input (max), W	500	500	500	500
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	64	70	70	20
Front-to-back ratio (typ), dB	20	20	20	15

**Mechanical Specifications**

Connector	N (female)	N (female)	N (female)	N (female)
Length/ Height, in (mm)	12 (305)	12 (305)	12 (305)	12 (305)
Width, in (mm)	14 (356)	14 (356)	14 (356)	11 (279)
Depth, in (mm)	5.3 (135)	5.3 (135)	5.3 (135)	5.3 (135)
Weight, lbs (kg)	3.2 (1.5)	3.2 (1.5)	3.2 (1.5)	3.2 (1.5)
Actual Shipping weight, lbs (kg)	10 (4.5)	10 (4.5)	10 (4.5)	10 (4.5)
Shipping dimensions, in (mm)	41x13x8 (1041x330x203)	41x13x8 (1041x330x203)	19x13x7 (483x330x178)	41x13x8 (1041x330x203)

**Environmental Specifications**

Temperature range, °F (°C)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent), ft <sup>2</sup> (m <sup>2</sup> )	1 (0.09)	1 (0.09)	1 (0.09)	1 (0.09)

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[SP470-SF4P75SNF\(E2174\)](#)

[SP4701-SF3SNF\(E8134\)](#)

**Electrical Specifications**

Frequency Range, MHz	900 to 920	900 to 960
Gain (nominal), dBd (dBi)	6.5 (8.6)	10 (12.1)
Input VSWR (max)	1.5:1	1.5:1
Polarization	horizontal	horizontal
Pattern	Directional	Directional
Horizontal beamwidth, degrees	60	20
Vertical beamwidth, degrees	45	95
Average Power Input (max), W	500	
Lightning protection	DC ground	DC ground
Bandwidth, MHz	20	60
Front-to-back ratio (typ), dB	20	25

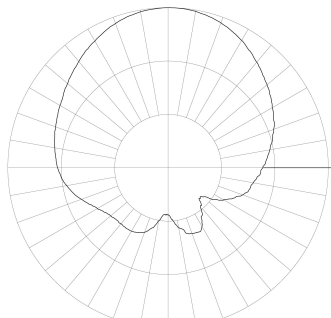
**Mechanical Specifications**

Connector	N (female)	N (female)
Length/ Height, in (mm)	12 (305)	34 (864)
Width, in (mm)	11 (279)	12 (305)
Depth, in (mm)	5.3 (135)	5.5 (140)
Weight, lbs (kg)	3.2 (1.5)	7 (3.2)
Actual Shipping weight, lbs (kg)	10 (4.5)	10 (4.5)
Shipping dimensions, in (mm)	41x13x8 (1041x330x203)	41x13x8 (1041x330x203)

**Environmental Specifications**

Temperature range, °F (°C)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent), ft <sup>2</sup> (m <sup>2</sup> )	1 (0.09)	2.9 (0.27)

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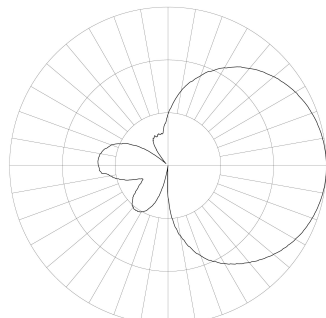
MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Azimuth

Relative Gain - 10 dB per Division

SP470-SF1P60SNF

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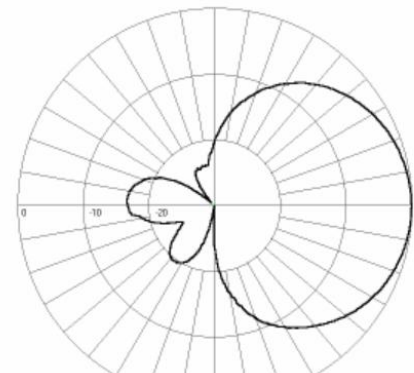


MEASURED RADIATION PATTERN  
VERTICAL POLARIZATION

Elevation

Relative Gain - 10 dB per Division

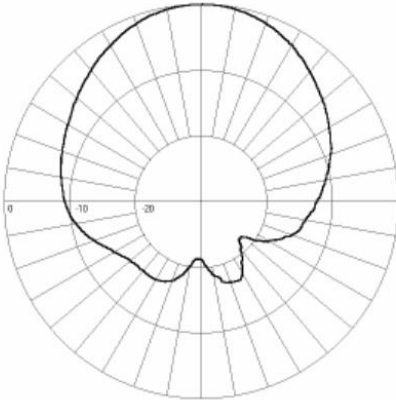
SP470-SF1P60SNF



Elevation

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Azimuth

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