

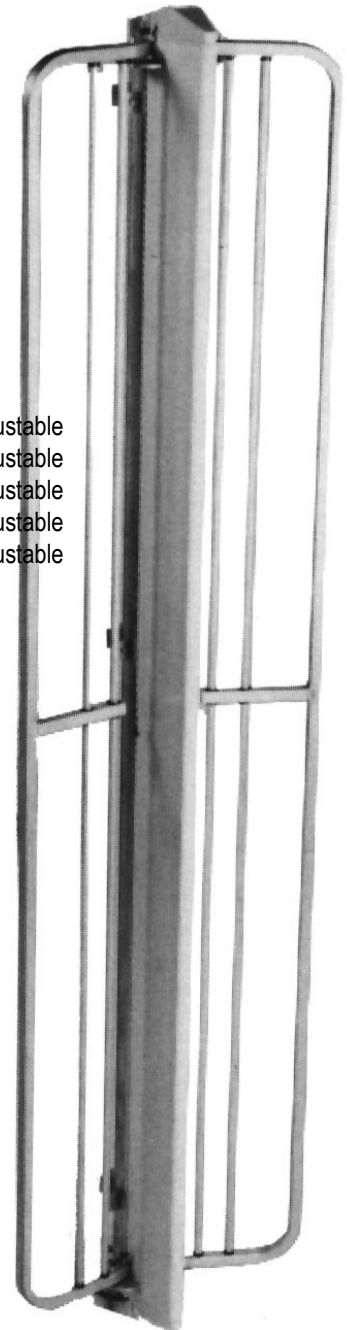
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SE419-AL - PIM Certified Enc. 9 dipole array, 12-15 dBd gain, low PIM, 806-960 MHz

- Excellent low IM performance
- Particularly suited to communications systems requiring a specific coverage pattern
- Field adjustable pattern

Sinclair's SE419 series of enclosed dipole arrays offers excellent low intermodulation performance in the 806-960 MHz band. These highly versatile antennas are particularly well suited to communication systems where a specific coverage pattern is required. These include cellular systems, trunked radio, paging, and data transmission, where predictable and highly reliable performance is a must.

The SE419 series is also available with field adjustable reflectors that provide horizontal beamwidths between 60 and 160 degrees. The creative design and construction permit excellent pattern control, greater efficiency and a high front-to-back ratio. Electrical down-tilted and inverted versions are also available.



Model	Description	Pattern
SE419-SF1PALDF	12-15 dBd gain, 7/16 DIN (female) connector, 806-896 MHz	Directional and Adjustable
SE419-SF1PALNF	10.5-15 dBd gain, N (female) connector, 806-896 MHz	Directional and Adjustable
SE419-SF2PALDF	12-15 dBd gain, 7/16 DIN (female) connector, 850-960 MHz	Directional and Adjustable
SE419-SF2PALNF	12-15 dBd gain, N (female) connector, 850-960 MHz	Directional and Adjustable
SE419-SF3PALDF	10.5-15 dBd gain, 7/16 DIN (female) connector, 746-869 MHz	Directional and Adjustable

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Product Specification Sheet		SE419-AL - PIM Certified		Dated: 05-02-10

[SE419-SF1PALDF](#)

[SE419-SF1PALNF](#)

[SE419-SF2PALDF](#)

[SE419-SF2PALNF](#)

Electrical Specifications

Frequency Range, MHz	806 to 896	806 to 896	850 to 960	850 to 960
Gain (nominal), dBd (dBi)	15 (17.1)	15 (17.1)	15 (17.1)	15 (17.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1	1.5:1
Polarization	vertical	vertical	vertical	vertical
Pattern	Directional and Adjustable	Directional and Adjustable	Directional and Adjustable	Directional and Adjustable
Horizontal beamwidth, degrees	60	60	60	60
Vertical beamwidth, degrees	8	8	8	8
Average Power Input (max), W	500	500	500	500
Passive intermod. (2x20W, 3rd ord.), dBc	-150	-138	-150	-138
Lightning protection	DC ground	DC ground	DC ground	DC ground
Bandwidth, MHz	90	90	110	110
Electrical tilt (available)	0	0	0	0

Mechanical Specifications

Connector	7/16 DIN (female)	N (female)	7/16 DIN (female)	N (female)
Length/ Height, in (mm)	103 (2616)	103 (2616)	103 (2616)	103 (2616)
Width, in (mm)	25 (635)	25 (635)	25 (635)	25 (635)
Depth, in (mm)	9.5 (241)	9.5 (241)	9.5 (241)	9.5 (241)
Base pipe diameter, in (mm)	2.9 (73)	2.9 (73)	2.9 (73)	2.9 (73)
Base pipe mounting length, in (mm)	86 (2183)	86 (2183)	86 (2183)	86 (2183)
Weight, lbs (kg)	36 (16.3)	36 (16.3)	36 (16.3)	36 (16.3)
Actual Shipping weight, lbs (kg)	50 (22.7)	50 (22.7)	50 (22.7)	50 (22.7)
Shipping dimensions, in (mm)	118x14x17 (2997x356x432)	118x14x17 (2997x356x432)	118x14x17 (2997x356x432)	118x14x17 (2997x356x432)
Mounting hardware	#130 clamp	#130 clamp	#130 clamp	#130 clamp

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SE419-SF3PALDF

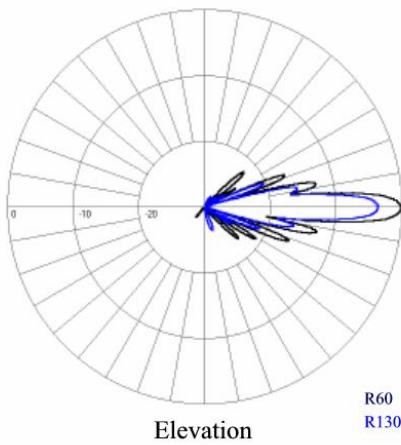
Electrical Specifications

Frequency Range, MHz	746 to 869
Gain (nominal), dBd (dBi)	10.5 (12.6)
Input VSWR (max)	1.5:1
Polarization	vertical
Pattern	Directional and Adjustable
Horizontal beamwidth, degrees	
Vertical beamwidth, degrees	8
Average Power Input (max), W	600
Passive intermod. (2x20W, 3rd ord.), dBc	-150
Lightning protection	DC ground
Bandwidth, MHz	123
Electrical tilt (available)	0,2,4,6

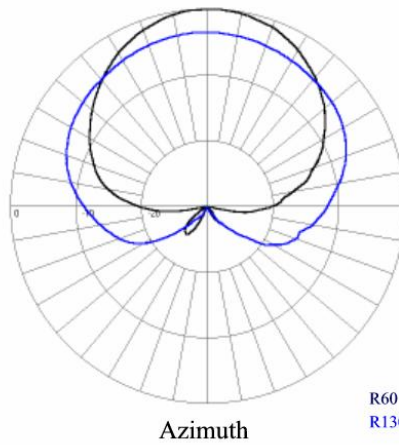
Mechanical Specifications

Connector	7/16 DIN (female)
Length/ Height, in (mm)	103 (2616)
Width, in (mm)	25 (635)
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Mounting hardware	#130 clamp

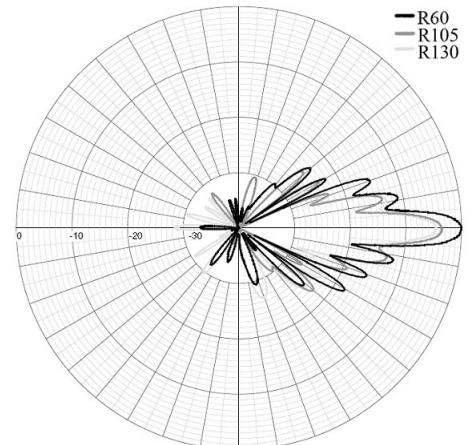
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SE419-SF1PALDF

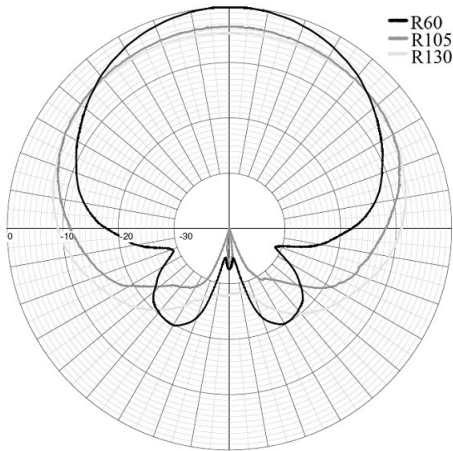


SE419-SF1PALDF



SE419-SF3PALDF

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