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SE414-AL - PIM Certified Enc. 4 dipole array, 8-11 dBd gain, low PIM, 746-960 MHz

- Excellent low intermodulation performance
- Particularly suited to communication systems requiring a specific coverage pattern
- Field adjustable pattern

Sinclair's SE414-A series of enclosed dipole arrays offers excellent IM performance in the 746-960 MHz band. These highly versatile antennas are particularly well suited to communications 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 SE414-A series come with field adjustable reflectors that provide horizontal beamwidths between 60 and 160 degrees. The creative design and construction permits excellent pattern control, greater efficiency and a high front-to-back ratio. Electrical downtilted and inverted versions are also available.



Model

- [SE414-SF1PALDF](#)
- [SE414-SF1PALNF](#)
- [SE414-SF2PALDF](#)
- [SE414-SF2PALNF](#)
- [SE414-SF3PALDF](#)

Description

- 8-11 dBd gain, 7/16 DIN (female) connector, 806-896 MHz
- 8-11 dBd gain, N (female) connector, 806-896 MHz
- 8-11 dBd gain, 7/16 DIN (female) connector, 850-960 MHz
- 8-11 dBd gain, N (female) connector, 850-960 MHz
- 8-11 dBd gain, 7/16 DIN (female) connector, 746-869 MHz

Pattern

- Directional and Adjustable
- Directional and Adjustable
- Directional and Adjustable
- Directional and Adjustable
- directional, adjustable

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Product Specification Sheet		SE414-AL - PIM Certified		Dated: 05-02-10

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[SE414-SF2PALDF](#)

[SE414-SF2PALNF](#)

Electrical Specifications

Frequency Range, MHz	806 to 896	806 to 896	850 to 960	850 to 960
Gain (nominal), dBd (dBi)	11 (13.1)	11 (13.1)	11 (13.1)	11 (13.1)
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
Vertical beamwidth, degrees	20	20	20	20
Average Power Input (max), W	600	600	600	600
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)	53 (1346)	53 (1346)	53 (1346)	53 (1346)
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)	36 (914)	36 (914)	36 (914)	36 (914)
Weight, lbs (kg)	23 (10.4)	23 (10.4)	23 (10.4)	23 (10.4)
Weight iced, lbs (kg)				
Actual Shipping weight, lbs (kg)	25 (11.4)	25 (11.4)	25 (11.4)	25 (11.4)
Shipping dimensions, in (mm)	58x14x17 (1473x356x432)	58x14x17 (1473x356x432)	58x14x17 (1473x356x432)	58x14x17 (1473x356x432)
Mounting hardware	#130 clamps provided.	#130 clamps provided.	#130 clamps provided.	#130 clamps provided.

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Product Specification Sheet

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Dated: 05-02-10

SE414-SF3PALDF

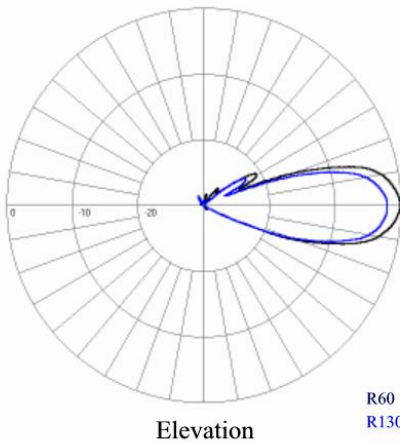
Electrical Specifications

Frequency Range, MHz	746 to 869
Gain (nominal), dBd (dBi)	8 (10.1)
Input VSWR (max)	1.5:1
Polarization	vertical
Pattern	directional, adjustable
Vertical beamwidth, degrees	20
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

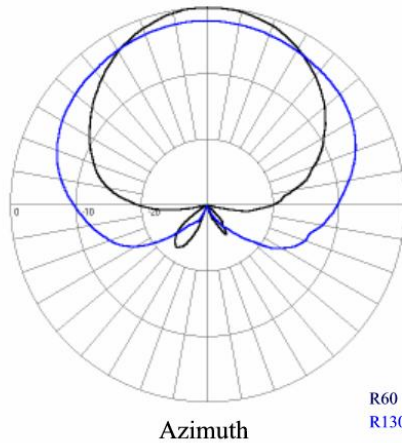
Mechanical Specifications

Connector	7/16 DIN (female)
Length/ Height, in (mm)	53 (1346)
Width, in (mm)	25 (635)
Depth, in (mm)	9.5 (241)
Base pipe diameter, in (mm)	2.9 (73)
Base pipe mounting length, in (mm)	36 (914)
Weight, lbs (kg)	23 (10.4)
Weight iced, lbs (kg)	71 (32.2)
Actual Shipping weight, lbs (kg)	25 (11.4)
Shipping dimensions, in (mm)	58x14x17 (1473x356x432)
Mounting hardware	#130 clamps provided.

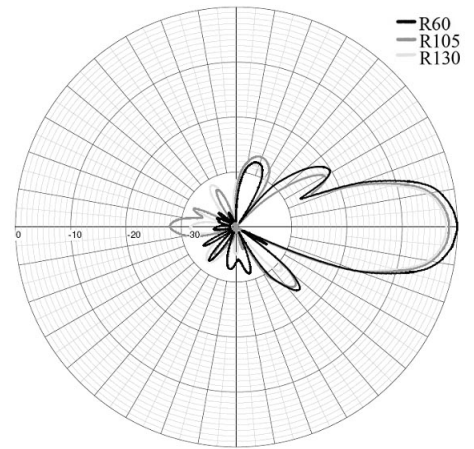
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SE414-SF1PALDF

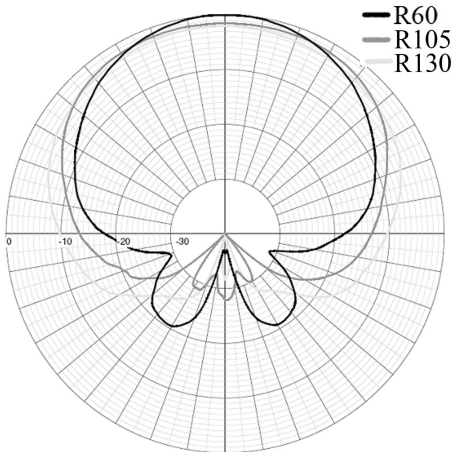


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