

SE419-SWBPALDF(D00) Enclosed dipole array, 10.5-15 dBd, field adjustable, low PIM, 746-960 MHz, DF

- New wide band version covers entire 746-960 MHz
- Horizontal beamwidth can be adjusted (60°/90°/105°/130°/160°)
- Gain depends on horizontal beamwidth setting (15/13/12.5/11.5/10.5 dBd)
- Particularly suited to communications systems requiring a specific coverage pattern.

Sinclair's SE419-AL series of enclosed dipole arrays offers excellent low intermodulation performance in the 746-960 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-AL series 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.



www.sinctech.com

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) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

#### Electrical Specifications

Frequency Range	MHz	746 to 960	
Bandwidth	MHz	214	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	15 (17.1)	*1
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Directional and Adjustable	
Horizontal beamwidth (typ)	degrees	60	*2
Vertical beamwidth (typ)	degrees	8	
Average Power Input (max)	W	600	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
Lightning protection		DC ground	
PIP(KW, max)		25	
Electrical tilt (available)		0,2,4 or 6 downtilt	

#### Notes

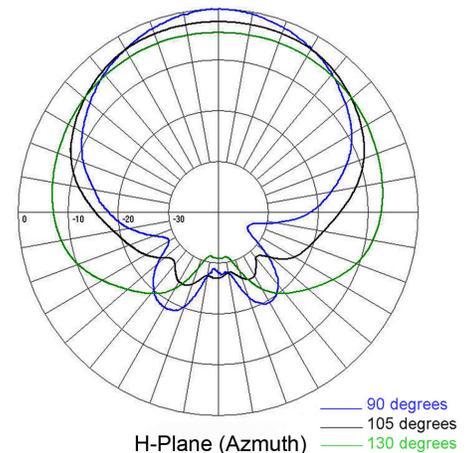
- \*1 : 13/12.5/11.5/10.5 dBd
- \*2 : 90°/105°/130°/160°
- \*3 : 90° beamwidth configuration
- \*4 : 90° beamwidth configuration

#### Mechanical Specifications

Depth	in (mm)	9.5 (241)	*3
Length/ Height	in (mm)	103 (2616)	
Width	in (mm)	25 (635)	*4
Base pipe diameter	in (mm)	2.88 (73)	
Base pipe mounting length	in (mm)	85.95 (2183)	
Radiating element material		copper	
Weight	lbs (kg)	36 (16.34)	
Mounting Hardware (Standard)		Clamp130	
Actual Shipping weight	lbs (kg)	50 (22.7)	
Shipping dimensions	in (mm)	118x14x17 (2997x356x432)	
Mounting configurations		upright	

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	7.93 (0.74)
Wind Loading Area (1/2" ice)	ft² (m²)	11.1 (1.03)
Rated wind velocity (no ice)	mph (km/h)	135 (217)
Rated wind velocity (1/2" radial ice)	mph (km/h)	120 (193)
Lateral thrust (100 mph No Ice)	lbs (N)	265 (1178.7)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	141 (190.4)



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