

SE414-SWBPALDF(D00) Enclosed 4 dipole array, 8-11 dBd, adj. beamwidth, low PIM, 746-960 MHz

- Single antenna covers 746-960 MHz
- Clamps for mechanical or electrical downtilt can be ordered separately
- Compact, enclosed antenna design
- Gain depends on horizontal beamwidth setting (11/10/9.5/9/8 dBd)

One antenna for your 700, 800, 900 MHz systems. Sinclair's SE414-WBL series of enclosed dipole arrays offer excellent intermodulation performance covering 746-960 MHz in a single antenna.



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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet EPR 018751 Customer Tech Manual		SE414-SWBPALDF(D00)	Issue: 2	Dated: 07-07-14 Dated: 07-07-14

#### Electrical Specifications

Frequency Range	MHz	746 to 960	
Bandwidth	MHz	214	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	11 (13.1)	*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	20	
Average Power Input (max)	W	600	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	*3
Lightning protection		DC ground	
PIP(KW, max)		25	
Electrical tilt (available)		0,2,4 or 6 degrees	

#### Notes

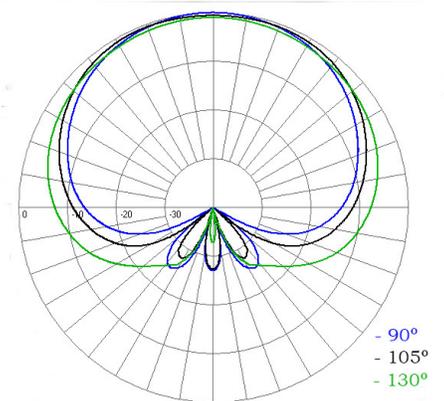
- \*1 : Dependant on reflector setting 10/9.5/9/8
- \*2 : 90/105/130/160
- \*3 : Measured in the receive band: 16 - 20W carriers.
- \*4 : 90° beamwidth configuration.
- \*5 : Ref. clamp maximum
- \*6 : 90° beamwidth configuration.
- \*7 : Flat plate equivalent.
- \*8 : Flat plate equivalent.

#### Mechanical Specifications

Depth	in (mm)	9.5 (241)	*4
Length/ Height	in (mm)	53 (1346)	
Width	in (mm)	25 (635)	
Base pipe diameter	in (mm)	2.88 (73)	*5
Base pipe mounting length	in (mm)	30.5 (775)	
Weight	lbs (kg)	19.5 (8.85)	*6
Mounting Hardware (Standard)		Clamp130	
Actual Shipping weight	lbs (kg)	24.5 (11.12)	
Shipping dimensions	in (mm)	58x14x17 (1473x356x432)	
Mounting configurations		upright	

#### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	4.8 (0.45)	*7
Wind Loading Area (1/2" ice)	ft² (m²)	5.7 (0.53)	*8
Rated wind velocity (no ice)	mph (km/h)	100 (161)	
Rated wind velocity (1/2" radial ice)	mph (km/h)	85 (137)	
Lateral thrust (100 mph No Ice)	lbs (N)	180 (800.6)	
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	93 (125.6)	



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