

SE414-SWBP4L(YY)(DXX) Enclosed dipole, Offset, 7.5 dBd, Low PIM, 746-960 MHz

- New wide band design covers 746-960 MHz band
- Compact, enclosed antenna with excellent low intermodulation performance
- PIP rated and low PIM

One wideband 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. 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. Designed for multi-channel systems, the PIP rated SE414-WBL series features low intermodulation products, highly rated average power and peak instantaneous power (PIP).

The SE414-WBL series is also available with field adjustable reflectors that provide horizontal beamwidths between 60 and 160 degrees (See SE414-WBAL). The creative design and construction permits excellent pattern control and greater efficiency.

This antenna shall be mounted in an upright position.
Clamps for mechanical downtilt can be ordered separately.

When ordering, please refer to the chart below for the model number. Different configurations are subject to various list prices. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Name	Connector	Downtilt	PIM(dBc)	PIP(kW, max)
SE414-SWBP4LDF(D00)	7/16 DIN(F)	0°	<-150	25
SE414-SWBP4LDF(D02)	7/16 DIN(F)	2°	<-150	25
SE414-SWBP4LDF(D04)	7/16 DIN(F)	4°	<-150	25
SE414-SWBP4LDF(D06)	7/16 DIN(F)	6°	<-150	25
SE414-SWBP4LNF(D00)	N(F)	0°	<-139	N/A
SE414-SWBP4LNF(D02)	N(F)	2°	<-139	N/A
SE414-SWBP4LNF(D04)	N(F)	4°	<-139	N/A
SE414-SWBP4LNF(D06)	N(F)	6°	<-139	N/A



Antenna may not appear exactly as shown in image

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

Electrical Specifications

Frequency Range	MHz	746 to 960
Bandwidth	MHz	214
Gain (nominal)	dBd (dBi)	7.5 (9.6)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Offset
Horizontal beamwidth (typ)	degrees	180
Vertical beamwidth (typ)	degrees	18
Average Input Power (max)	W	500
Grounding		All metal parts DC-grounded

Mechanical Specifications

Width	in (mm)	2.9 (74)	*1
Depth	in (mm)	8.5 (216)	*2
Length/ Height	in (mm)	53 (1346)	
Base pipe diameter	in (mm)	2.88 (73)	*3
Base pipe mounting length	in (mm)	30.5 (775)	
Radiating element material		prntd circuit bd	
Weight	lbs (kg)	12.5 (5.68)	
Weight iced (1/2" ice)	lbs (kg)	35.5 (16.12)	
Mounting Hardware (Included)		#130 clamp	
Mounting configurations		upright	
Estimated Shipping Weight	lbs (kg)	17.5 (7.95)	
Shipping dimensions	in (mm)	58x14x17 (1473x356x432)	

Environmental Specifications

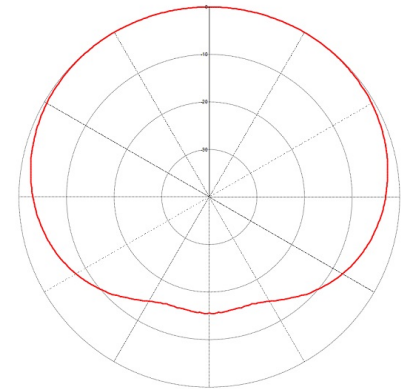
Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	3 (0.28)
Wind Loading Area (1/2" ice)	ft² (m²)	3.8 (0.35)
Rated wind velocity (no ice)	mph (km/h)	175 (282)
Rated wind velocity (1/2" radial ice)	mph (km/h)	160 (258)
Lateral Thrust (100 mph No Ice)	lbs (N)	112 (498.2)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	40 (54)

Notes

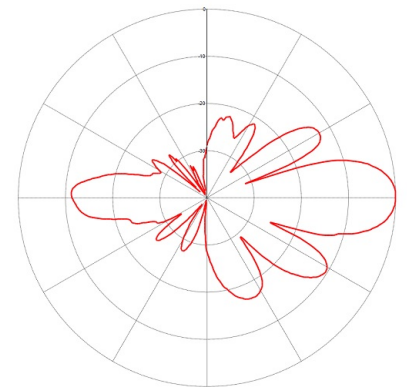
- *1 : Clamps not included in measurement
- *2 : Clamps not included in measurement
- *3 : Ref. Clamp maximum

Ordering Information

When ordering, please refer to the model list on the previous page for specific model numbers and different configurations.



Horizontal



Vertical - 0° downtilt

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