

WSAOM Stacked Dipole Omnidirectional Antennas 380-490MHz



- 7.2 dBi (5dBd) Gain**
- 0 Degree Electrical Tilt**
- Wide Bandwidth**
- Vertically Polarised**
- Digital PMR Applications**

Type WSA is a new Omnidirectional antenna designed using the latest in engineering technology. The antenna offers superior performance in a robust design. The omnidirectional configuration comprises four vertical dipoles mounted at 90° separation around a support tube of 38mm outside diameter. The dipoles are fed in phase via a fully weatherproofed 4-way splitter box mounted on the support tube. Models offering Offset Omni coverage are also available (Type WSAOF)



ELECTRICAL SPECIFICATIONS	WSA410OMT0		
Frequency Range:	380-490 MHz		
Frequency Bands: WSA410	380-430 MHz		
WSA440	410-470 MHz		
WSA460	430-490 MHz		
Gain (Rel. 1/2 dipole):	Omnidirectional Pattern 7.2dBi (5dBd)		
VSWR:	1.5:1 Typical		
Polarisation:	Vertical		
H-Plane Beamwidth (-3dB):	Circular to within +/- 1dB		
E-Plane Beamwidth (-3dB):	±8°		
Electrical Downtilt	0°		
Power Rating:	250 watts		
Impedance:	50 ohms		
Lightning Protection:	DC ground		
MECHANICAL SPECIFICATIONS			
Balun	Half-wave delay line, at each dipole		
Termination:	N male (Other Terminations Avail:) **		
Feeder Tail:	3.6 m URM 67 coaxial cable		
Overall Length (mm)	WSA410: 2540	WSA440: 2540	WSA460: 2300
Weight:	WSA410: 5kg	WSA440: 5kg	WSA460: 4.6kg
Rated Wind Velocity:	193 km/h		
Horizontal Thrust at Rated Wind:	WSA410: 19.9kg	WSA440: 19.9kg	WSA460: 18.5kg
Mounting: NB: Order Separately	Mounts to a 29-51mm O.D. support pipe using cross-over/Parallel clamp pt. no. 9637423		
MATERIALS			
Support Tube	38mm O.D. 10swg seamless extruded aluminium : (EN485)		
Dipoles:	Aluminium alloy channel		
STANDARD MODELS *			
	MODEL NO.	MODEL NO.	MODEL NO.
Electrical Tilt	380-430 MHz	410-470 MHz	430-490 MHz
0 Degrees	WSA410OMT0	WSA440OMT0	WSA460OMT0
*The WSAOM omnidirectional model is only available with 0° electrical tilt. For applications requiring omnidirectional coverage with electrical downtilt the SWIFT omnidirectional antenna is recommended.			

** N Socket - Add S1 to the end of the model number.
For Models with 7/16 Connector please see WDS range

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380-490MHz**



Mounting



Pt. No. 9637423

Cross-over/Parallel Clamp for connecting booms of
29-51mm diameter to 29-51 O.D. tubular masts