

WSAOF Stacked Dipole Offset Omni Antennas 380-490MHz



- 10.7 dBi (8.5dBd) Gain**
- Electrical Tilt Options**
- Wide Bandwidth**
- Vertically Polarised**
- Digital PMR Applications**

Type WSA is a new Offset antenna designed using the latest in engineering technology. The antenna offers superior performance in a robust design. This offset configuration comprises four vertical dipoles mounted in line on the same side of 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. Electrical tilt options are available. Models offering omnidirectional coverage are also available (Type WSAOM)

| ELECTRICAL SPECIFICATIONS | WSAOF | | |
|---|---|-----------------------|-----------------------|
| Frequency Range: | 380-490 MHz | | |
| Frequency Bands: WSA410 | 380-430 MHz | | |
| WSA440 | 410-470 MHz | | |
| WSA460 | 430-490 MHz | | |
| Gain (Rel. 1/2 dipole): | Off-set pattern 10.7dBi (8.5dBd) | | |
| VSWR: | 1.5:1 Typical | | |
| Polarisation: | Vertical | | |
| H-Plane Beamwidth (-3dB): | Off-set pattern: $\pm 75^\circ$ | | |
| E-Plane Beamwidth (-3dB): | $\pm 8^\circ$ | | |
| Electrical Downtilt | 0°, 5°, 10° | | |
| 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: | Mounts to a 29-51mm O.D. support pipe using cross-over/Parallel clamp pt. no. 9637423 | | |
| NB: Order Separately | | | |
| 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 | WSA410OFT0 | WSA440OFT0 | WSA460OFT0 |
| 5 Degrees | WSA410OFT5 | WSA440OFT5 | WSA460 T5T5 |
| 10 Degrees | WSA410OFT10 | WSA440OFT10 | WSA460OFT10 |

** 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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Provisional Datasheet

**WSAOF Stacked Dipole
Offset Omni Antennas
380-490MHz**



Mounting



Pt. No. 9637423

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