

TSA

Local Area Antennas

68-176 MHz/380-480 MHz



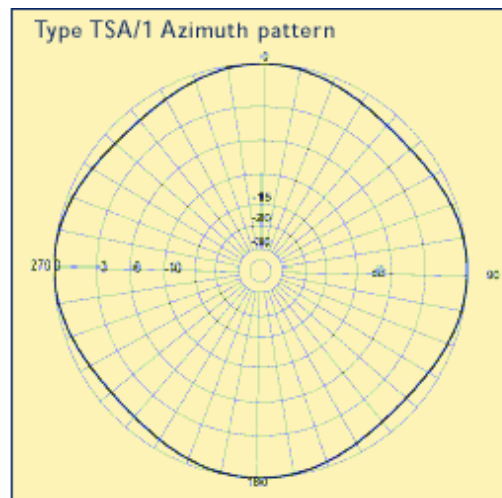
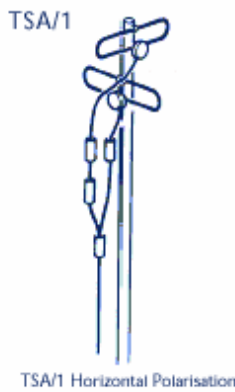
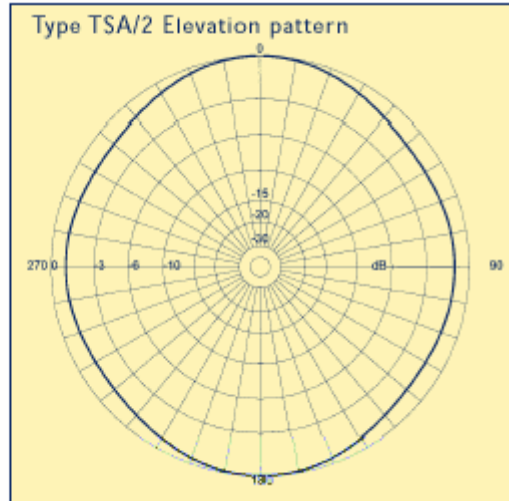
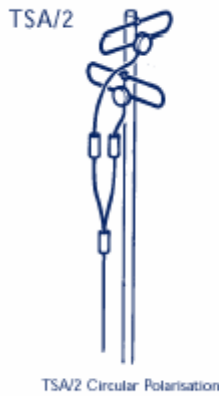
- Field Adjustable**
- Linear or Circular Polarisation**
- Omnidirectional or Downward Radiation**
- Broad Bandwidth**
- Digital PMR Applications**



Antenna Type TSA has been designed for local area coverage applications such as site-paging in large complexes and multi-storey buildings. In type TSA/1 configuration the antenna has an omnidirectional horizontally polarised radiation pattern. Conversion to type TSA/2 configuration is easily accomplished in the field by removing the short phasing section in the feeder harness. The TSA/2 configuration provides an essentially circularly polarised pattern in filling the null points normally found immediately above and below a conventional dipole antenna. Type TSA/1 is suitable when omnidirectional coverage of local areas is required. Type TSA/2 is designed for applications requiring coverage vertically, above or below the antenna.

ELECTRICAL SPECIFICATIONS	TSA80	TSA160	TSA400	TSA450
Frequency Range:	66-88 MHz	140-176 MHz	380-430 MHz	420-480 MHz
Bandwidth (typical)	+/- 12%	+/- 12%	+/- 12%	+/- 12%
Gain (Rel. $\lambda/2$ dipole): TSA/1 TSA/2	-3dBd Unity	-3dBd Unity	-3dBd Unity	-3dBd Unity
VSWR: (typical)	1.5:1	1.5:1	1.5:1	1.5:1
Polarisation: TSA/1 TSA/2	Horizontal Circular	Horizontal Circular	Horizontal Circular	Horizontal Circular
Power Rating:	400 Watts		250 Watts	250 Watts
Impedance:	50 ohms			
Lightning Protection:	DC ground			
Feeder Tail:	URM67 Coaxial Cable			
Termination:	N Male			
MECHANICAL SPECIFICATIONS				
Overall Length	1524 mm	914 mm	762 mm	762 mm
Dipole Diameter	19 mm O.D	19 mm OD	13mm OD	13 mm OD
Support Tube Diameter	38mm OD	38mm OD	38mm OD	38mm OD
Weight:	5.6 kg	4.0 kg	1.1 kg	1.0 kg
Rated Wind Velocity:	193 km/h			
Horizontal Thrust at Rated Wind:	23 kg	12.9 kg	9 kg	8.6 kg
Mounting:	Order separately. Mounts to a 32-51mm O.D. Support pipe using 2 x clamp pt.no 9637423			
MATERIALS				
Boom:	38 mm O.D 10 swg Polished seamless extruded aluminium			
Dipole	19 mm O.D 16swg. Polished seamless extruded aluminium			
Dipole Box	UV Stabilised injection moulded polypropylene			
Fastners	Stainless Steel nuts & bolts			

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Pt. No. 9637423
Cross-over/Parallel Clamp
for connecting booms of
29-51mm diameter to
29-51 O.D. tubular masts

