

## SWIFT Series, IMD Rated UHF Omnidirectional Antennas Whit Tilt

The SWIFT range of collinears is specially designed for Public Safety and Public Access Digital PMR networks.

Corporate feed design ensures true omnidirectional patterns with excellent control of electrical tilt. The radiation pattern of the SWIFTOM is omnidirectional better than  $\pm 0.5$  dB. The SWIFTOF radiation pattern is directional with front-to-back ratio of 4 dB. This provides extra gain to facilitate network planning for optimized coverage in a preferred direction.

The outer radome is a glass fibre pultrusion. The radiating elements are copper laid on glass-reinforced substrate. The central support of rectangular brass section facilitates DC grounding for lightning protection.

This innovative antenna series offers network planners maximum flexibility within a compact design.



### Antenna Electrical Specifications

Model	Frequency Range	Gain (1/2 wave)	H-plane Beamwidth	E-plane Beamwidth	Electrical Downtilt
SWIFTOM390T0	380-400 MHz	5 dBd (7.2 dBi)	Circular to within +/- 0.5 dB	+/-9°	0°
SWIFTOM390T8	380-400 MHz	5 dBd (7.2 dBi)	Circular to within +/- 0.5 dB	+/-9°	8°
SWIFTOF390T0	380-400 MHz	7.5 dBd (9.7 dBi)	+/- 100°	+/-9°	0°
SWIFTOF390T8	380-400 MHz	7.5 dBd (9.7 dBi)	+/- 100°	+/-9°	8°
SWIFTOM420T0	410-430 MHz	5 dBd (7.2 dBi)	Circular to within +/- 0.5 dB	+/-9°	0°
SWIFTOM420T8	410-430 MHz	5 dBd (7.2 dBi)	Circular to within +/- 0.5 dB	+/-9°	8°
SWIFTOF420T8	410-430 MHz	7.5 dBd (9.7 dBi)	+/- 100°	+/-9°	8°

### Technical Data

Maximum Power: 250 watts
Polarization: Vertical
Normal Impedance: 50 ohms
VSWR: < 1.5:1 Typical
Color: Grey
Radome Material: Glass Fibre Tube
Radiator Material: (On glass-reinforced substrate) 2.56" diameter (65 mm) Copper
Lightning Protection: DC Ground
Support Tube: 3.5" diameter (90 mm) Aluminium Casting
Horizontal Thrust: 379N (39 kg) @ 200 km/hr 592N (61 kg) @ 250 km/hr
Add Rated Wind Velocity: On horizontal tube mount: 124 mph (200 km/hr) On vertical tube mount: 155 mph (250 km/hr)
Intermodulation: IMP3 <-140 dBc
Connector: 7/16 DIN female socket
Mounting Hardware: 50-115 mm Ø pipe Heavy duty cross-over/parallel (part #9641383)

### Mechanical Specifications

Model	Antenna Length	Weight (Mass)	Grounding Cross Section
Omnidirectional Models*	9.186' (2800 mm)	10.58 lbs (4.8 kg)	2.2 in <sup>2</sup> (57 mm <sup>2</sup> )
Offset Models**	9.186' (2800 mm)	10.58 lbs (4.8 kg)	1.7 in <sup>2</sup> (42 mm <sup>2</sup> )

\* Models with 5 dBd gain.

\*\* Models with 7.5 dBd gain.