



Product Data Sheet

Disguised Shark Fin Antenna with GPS

TETRA UHF

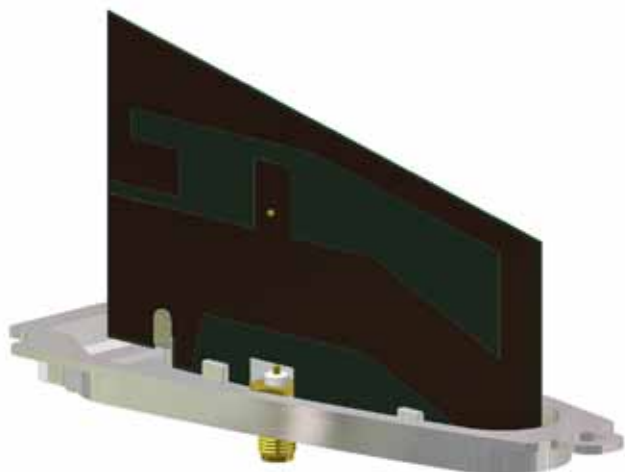
Disguised Shark Fin Antenna with GPS

SHKG

Covert application

Designed to fit inside BMW 5 series antenna housing

Integrated GPS antenna

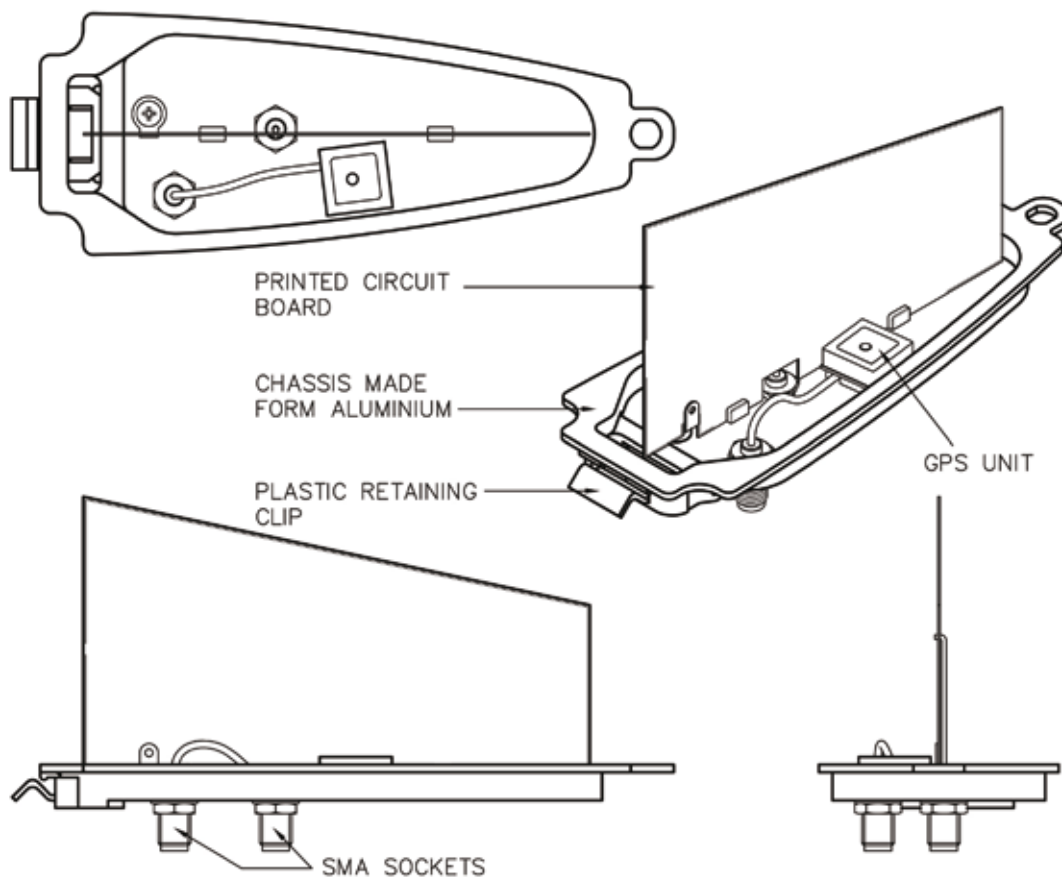


The Covert Shark Fin Antenna is designed specifically for the BMW 5 series, used by the police worldwide. The 380-400MHz TETRA antenna is intended to be a direct replacement for the existing 'Shark Fin' AM/FM application and fits into the existing housing, creating a completely under-cover panel mount solution.

Unlike other covert solutions this antenna is not compromised by its positioning enabling it to have a 360° omnidirectional pattern. This ensures constant communications with the vehicle. The 'SHKG' includes a high gain GPS antenna for applications requiring location based systems.



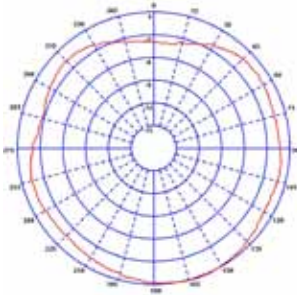
Technical Drawing



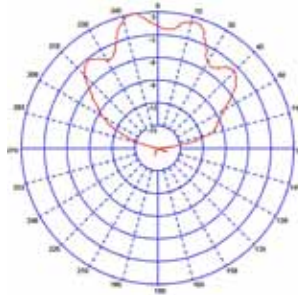
TETRA UHF

Disguised Shark Fin Antenna with GPS

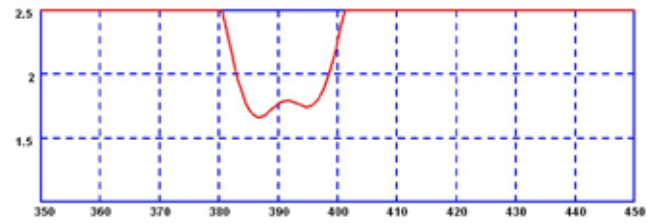
H-Plane (390MHz)



GPS



Typical VSWR



*measured on a 1m x 1m groundplane

Part No.		
	SHKG-S1-SJ	SHKG-S2-SJ
Electrical Data		
Frequency Range (MHz)	380-400	410-430
Operational Band	S1	S2
Gain: Isotropic	1dBi	1dBi
Compared to ¼ wave	-1dB	-1dB
Bandwidth @ 1.5:1 VSWR	10%	10%
Polarisation	Vertical	Vertical
Pattern	Omni-directional	Omni-directional
Impedance	50Ω	50Ω
Max Input Power (W)	20	20
GPS Data		
Frequency Range (MHz)	1575	1575
VSWR	<2.0:1 ± 4MHz	<2.0:1 ± 4MHz
Gain: LNA	26dB	26dB
Polarisation	Right Hand Circular	Right Hand Circular
Operating Voltage	3 - 7V DC (fed via coax)	3 - 7V DC (fed via coax)
Current	Typical 14mA	Typical 14mA
Mechanical Data		
Dimensions (mm) To fit inside BMW 5 series housing	Length	130
	Width	47.5
	Height	61.5
Operating Temp (°C)	-40° / +80°C	-40° / +80°C
Material	Printed circuit board	Printed circuit board
Colour	Black	Black
Mounting Data		
Fixing	To fit inside BMW 5 series housing	To fit inside BMW 5 series housing
Connector		
Termination	TETRA	SMA Socket
	GPS	SMA Socket

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom

T: +44 (0)20 8877 4444
F: +44 (0)20 8877 4477

E: sales@panorama-antennas.com
www.panorama-antennas.com

PANORAMA  ANTENNAS