



"Sharkfin" Multi-band Antenna



Technical Data

Maximum Power: 10 watts (all models, except GPSDBHF) 5 watts (GPSDBHF)
Polarization (GPS Models): Right hand circular
Input Impedance: 50 ohms
VSWR: < 1.8:1 (GPS) < 2.0:1 (RF)
Grounding Protection: DC grounded (GPSDBHF only)
Housing: Black, UV protected ABS
Housing Dimensions (major axis x minor axis x height): 97 mm (3.8") x 60 mm (2.4") x 70 mm (2.8")
Cable: 10 ft RG-174 (all models except GPSDBHF) 12 ft Pro-Flex™ Plus 195, black (GPSDBHF)
Mount Method: Through hole mounting

Sharkfin Multi-band Roof Mount Antennas

The Sharkfin antennas provide multi-band omnidirectional coverage in an attractive, low profile housing. The tri-band and quad-band models also provide GPS navigation support capability. Their low profile through-hole footprint offers an attractive antenna design that provides optimal sealing for leakage resistance.

Features

- Low, aerodynamic profile eliminates wind noise commonly experienced with external mount vehicular applications
- Overmolded gasket design provides optimal sealing from condensation and water ingress
- Integrated antenna mast design provides secure installation to the vehicle
- UV stability for outdoor applications
- GPS navigation support on select models

Multi-band Antenna Electrical Specifications

Model	Operating Frequencies	Antenna Gain
GPSQB and GPSTB	824-896 MHz (AMPS); 1850-1990 MHz (PCS); 2.4-2.5 GHz (WiFi) (GPSQB only)	Unity
GPSQBE	870-960 MHz (GSM); 1710-2170 MHz (3G)	Unity
GPSDBHF	2.4 GHz-2.5 GHz (Wi-Fi); 4.9-5.9 GHz (Public Safety/WiMAX)	Unity

Model*	Frequencies Covered	Number of Pigtailed
GPSQB	AMPS/PCS/GPS/WLAN	3
GPSQBE	GSM/3G/GPS/WLAN	3
GPSTB	AMPS/PCS/GPS	2
GPSDBHF	Wi-Fi/Public Safety/WiMAX	1***

Low Noise Amplifier Specifications

Operating Frequency	Nominal Gain	Nominal Impedance	Output VSWR	Noise Figure
L1: 1575.42 MHz	24 dB @ 5V	50 ohms	<1.8:1	2.0 dB nominal / 1.8 dB typical including front filter

Polarization	DC Voltage	Out-of-band Rejection	Current Draw	OIP3
Right-hand circular	2.7-5V	≥35 dB fo -50 MHz ≥40 dB fo +50 MHz	35 mA typical	24 dBm

Environmental Specifications

Operating Temperature Range	Humidity Rating
-40° C to +85° C	95%

***To order, please follow the following part number configuration:**

Base Model	GPS Connector Code	AMPS/PCS Connector Code	Wi-Fi Connector Code
<i>Example:</i> GPSQBE	<i>Choose among:</i> Right angle SMB Plug (RASBJ) Male SMA (MSMA) Female FME (FFME)	<i>Choose among:</i> Male SMA (MSMA) Male TNC (C) Female TNC (FC) Female FME (FFME)	<i>Choose among:</i> Reverse Polarity TNC (RPC) Male TNC (C) Reverse Polarity Male SMA (RPMSMA)

*** NOTE: Model GPSDBHF includes a single pigtail terminated with Reverse Polarity, Reverse Threaded Male SMA plug. Call factory for other connector options. This model does not include GPS.