

## SharkFin 3-in-1 Series FOR Motorola APX8500 and APX6500

The SharkFin style, 3-in-1 vehicular roof mount antennas from RFMAX combine high-performance at an economical price point. These models combine three separate holes in your vehicle roof. This antenna is the perfect alternative to combination antennas from other vendors... you no longer have to worry about lead time and high prices - you've found RFMAX!

From a technical standpoint, these antennas offer superior performance for the following three brands: 1575 MHz active GPS (3 or 5 volt) 698-960 MHz -- 700/800 MHz P25 and 2.4 / 5 GHz with threaded stud and adhesive mounting, there isn't much these antennas can't do. Thousands of these antennas have been deployed around North America on commercial vehicles, including:

- Electric, gas, and cable TV utility vans and trucks
- Local police, County sheriff & State Trooper cruisers
- Fire department trucks & ambulances
- Taxi Cabs, livery vehicles & limousines



## ELECTRICAL DATA

Frequency [MHz]	Cable 1	698-960
	Cable 2	2400-2485/5150-5875
	Cable 3	1575.42
VSWR	698-960/1710-2170/2300-2700	2.5:1
	2400-2485/5150-5875	2.0:1
Gain [dBi]	698-960/1710-2170/2300-2700	4.5
	2400-2485/5150-5875	6.5
Polarization	698-960/1710-2170/2300-2700	Linear Vertical
	2400-2485/5150-5875	Linear Vertical
Power Rating [W]	698-960	100
	1710-2170	20
	2400-5875	20

## ENVIRONMENTAL DATA

Operating Temperature [°C]	-40 / +85
Storage Temperature	-40 / +85
Relative Humidity MIL-STD810G, method 507.4 @ 30°[%]	93
Military Spec	MIL-STD 810 conformance to vibration

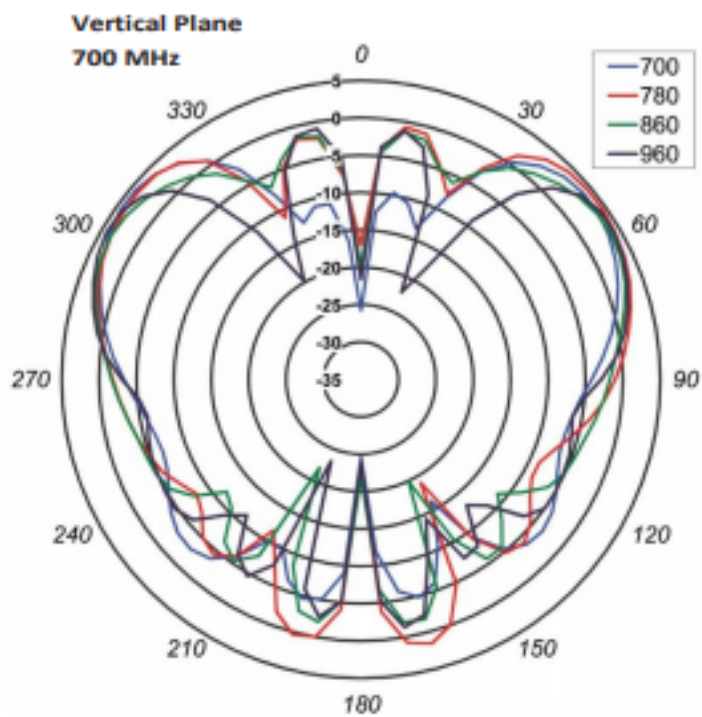
## LNA DATA

Gain [dBi - 3.3 V]	28
Gain [dBi - 5V]	30
Voltage [VDC]	3.3 OR 5

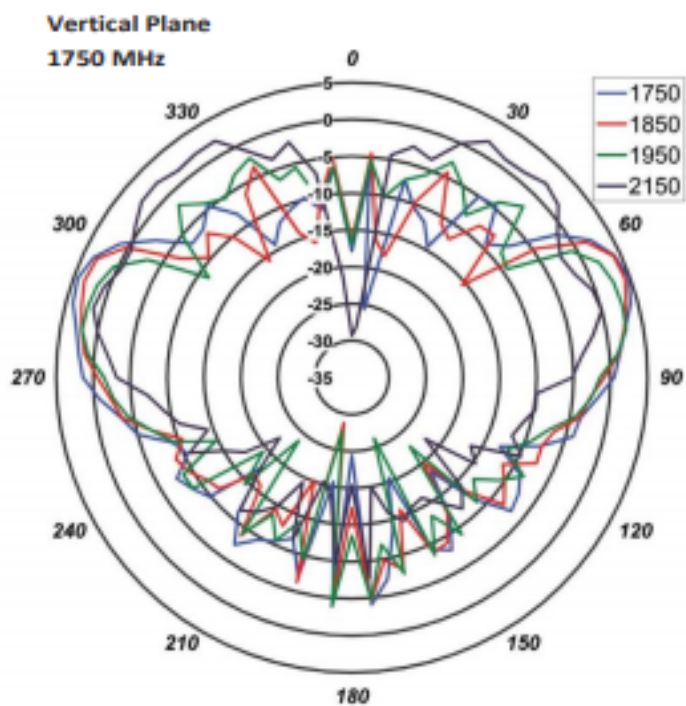
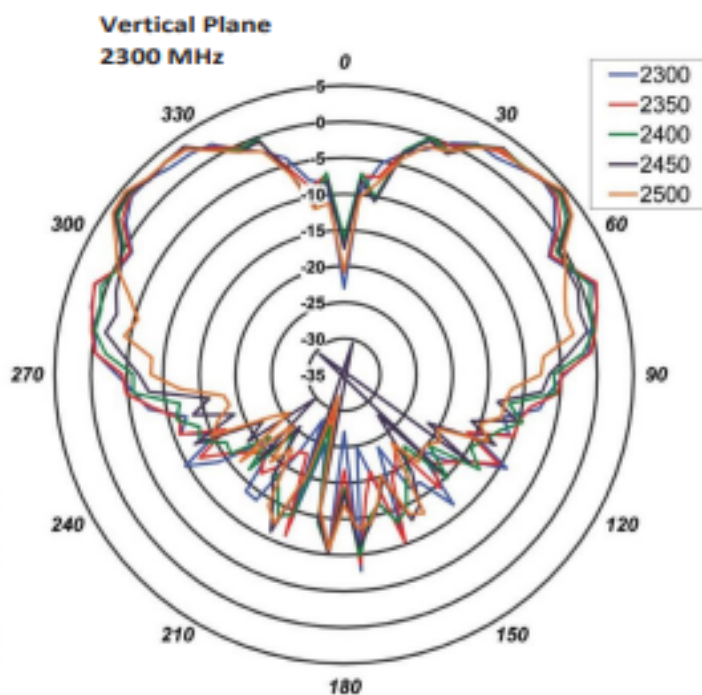
## MECHANICAL DATA

Color	Black or White
Ingress Progress	IP 65
Weight [oz/g]	15/470
Dimensions [in/m]	3.5 H X 4.26 D / 88.3 X 108
Mounting Hole [in/mm]	0.76 / 19.3
Direct Mount Stud [in/mm]	1.0 L x 0.75 D / 25.4 x 19
Adhesive Mount [in/mm]	4.26 / 108 3M Adhesive

P/N	Frequency	Cable Type	Cable Length (feet/meters)	Model	Connector
RSF-DB-G4W-QQQ	698-960/1710-2170/2300-2700/2400-2485/5150-5875/ 1575.42	RG-58 RG-58 RG-174	17 / 5.18 17/518 17/5.18	DB	QMA MALE, QMA MALE, QMA MALE
RSF-DB-G4W-QMQ	698-960/1710-2170/2300-2700 2400-2485/5150-5875 1575.42	RG-58 RG-58 RG-174	17 / 5.18 17 / 5.18 17 / 5.18	DB	QMA MALE, MINI UHF MALE, QMA MALE
RSF-AW-G4W-SSS	698-960/1710-2170/2300-2700 2400-2485/5150-5875 1575.42	RG-58 RG-58 RG-58	17 / 5.18 17 / 5.18 17 / 5.18	AW	SMA Male SMA Male SMA Male



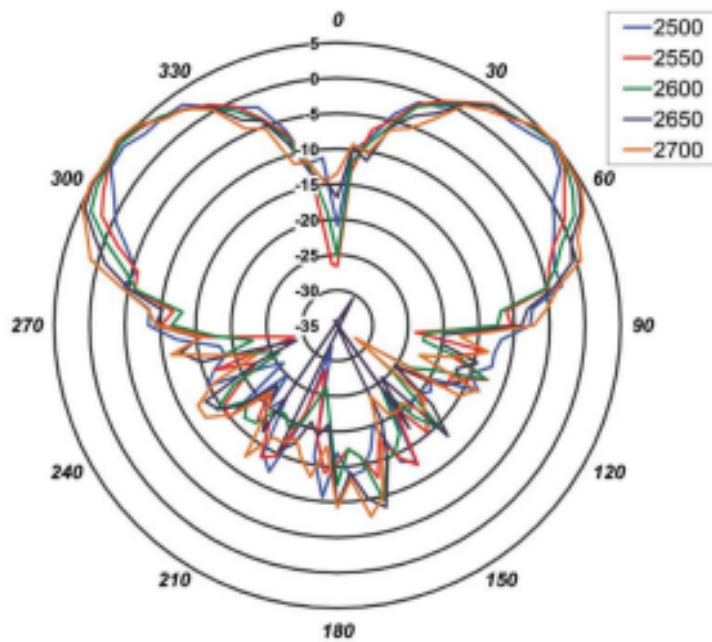
## Radiation Patterns



## Roof Mount Antennas

### Radiation Patterns

Vertical Plane  
2500 MHz



Vertical Plane  
5150 MHz

