

Taoglas GSA.8827 Phoenix Wideband I-Bar Antenna, 1m SMA Male

Product Code

GSA.8827.A.1011111

Polarisation

Vertical (V)

Design Type

Microstrip Patch

Application Category

IoT/M2M

RF Category

Cellular



The GSA.8827 Phoenix Ultra-Wideband I-Bar antenna is a robust high efficiency cellular antenna for use with all 2G/3G/4G cellular modules worldwide. Its slim-line design allows for covert and convenient installation in automotive vehicles, its omnidirectional gain across all bands ensures constant reception and transmission. GSA.8827 is manufactured and tested in a TS16949 first tier automotive approved facility, and it has gone through full PPAP design, reliability and quality audits.

The Phoenix finds its application particularly in first-tier automotive application, aftermarket and telematics. With its unique ultra-wide band dipole design, the Phoenix has exceptional industry performance characteristics considering its very low profile at 7.7 mm and has a compact size of only 105 x 30 mm.

This antenna is designed to be mounted on glass or plastic (not on metal). It comes with strong 3M double-sided adhesive for a permanent and secure fix to your vehicle interior. The antenna is UV Resistant. Cable lengths and connectors are fully customizable.

- First tier automotive approved
- High efficiency
- Wideband 698 to 2700 MHz covering most cellular bands
- Low profile for easy installation
- 1 metre RG174 cable with SMA Male straight connector
- Fully customisable cable length and connector

▼ Antenna Technical Data

Physical Characteristics

Construction Material	ABS Plastic Polycarbonate (PC)	RF Connections	1
Radome Colour	Other - Black	Environmental Rating	No Data
Dimensions	105 x 30 x 7.7 mm (L x W x D)	Operating Temperature	-40 °C to 85 °C
Weight	0.0500 kg	Mounting	3M Adhesive

▼ Wideband Cellular Microstrip Element

Electrical Specifications

Mechanical Specifications

Input Impedance	50 Ω	Input Connector	SMA
Polarisation	Vertical (V)	Input Connector Gender	Male
Max. Input Power	50 W	Cable Series	RG-174
PIM, 3rd Order	-	Cable Length	1000 mm

▼ Range: 703 to 803 MHz

Peak Gain	2.83 dBi	Azimuth Beamwidth	360°
VSWR	3.0:1	Elevation Beamwidth	No Data
Radiation Efficiency	69%	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

▼ Range: 824 to 894 MHz

Peak Gain	1.71 dBi	Azimuth Beamwidth	360°
VSWR	3.0:1	Elevation Beamwidth	No Data
Radiation Efficiency	53%	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

▼ Range: 880 to 960 MHz

Peak Gain	2.93 dBi	Azimuth Beamwidth	360°
VSWR	3.0:1	Elevation Beamwidth	No Data
Radiation Efficiency	67%	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

▼ Range: 1710 to 2170 MHz

Peak Gain	2.65 dBi	Azimuth Beamwidth	360°
VSWR	3.0:1	Elevation Beamwidth	No Data
Radiation Efficiency	64%	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

▼ Range: 2490 to 2690 MHz

Peak Gain	1.49 dBi	Azimuth Beamwidth	360°
VSWR	3.0:1	Elevation Beamwidth	No Data
Radiation Efficiency	40%	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

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