

Specification

Part No.	:	GSA.8830.A.201111
Product Name	:	Thin Heat-Shrink Wrapped Cellular I-Bar Adhesive Type External Antenna
Feature	:	850/900/1800/1900/2100 MHz bands 2m RG174 cable with SMA(M) connector 90mm*20.8mm*4.6mm Low profile With heat shrink to protect antenna RoHS & REACH Compliant







1.Introduction

The GSA.8830 Penta-band I-Bar antenna is flexible and robust. Its slim-line design encased in waterproof heat-shrink material allows for covert and convenient installation in automotive vehicles. Omni-directional gain across all bands ensures constant reception and transmission.

With its unique dipole design, the GSA.8830 has exceptional industry performance characteristics considering its very low profile at 4.6mm and has a compact size 90mm*20.8mm. It's suitable for customers that appreciate highest performance at a lower price.

This antenna is designed and tuned to be mounted on glass or plastic (not on metal). Cable lengths and connectors are fully customizable. Contact your regional Taoglas customer support team for more information.



2. Specification Table

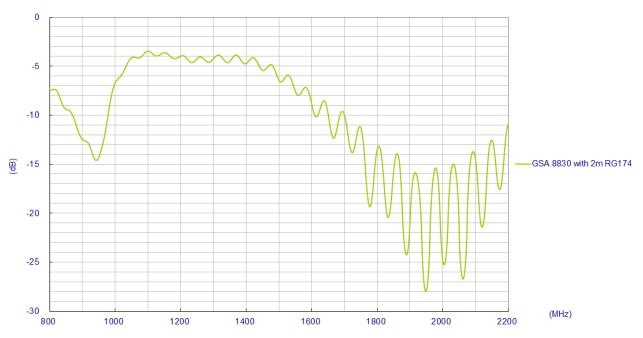
ELECTRICAL								
	GSM 850	GSM 900	DCS	PCS	WCDMA I			
Frequency (MHz)	824~896	880~960	1710~1880	1850~1990	1920~2170			
Peak Gain (dBi)*	-0.23	0.77	0.67	0.98	0.73			
Average Gain (dBi)*	-4.66	-5.39	-3.93	-3.43	-3.42			
Efficiency (%)*	34.55	28.94	40.57	45.53	45.52			
Return Loss (dB)*	< -8	< -9	< -10	< -10	< -10			
Polarization		Linear						
Impedance		50 Ω						
MECHANICAL								
Antenna Dimensions		90mm x 20.8mm x 4.6mm						
Material		FR4						
Cable type		RG174 Coaxial Cable						
Cable length		2m						
Connector type		SMA(M)						
Adhesive		3M 467						
IP rating		IP67(Internal PCB)						
ENVIRONMENTAL								
Operation Temperatur	re	-40°C ~ +85°C						
Storage Temperature	2	-40°C ~ +85°C						

 \ast Antenna is tested at the connector, to include 2 meter cable loss, adhered on

a 2mm thickness ABS material base substrate.



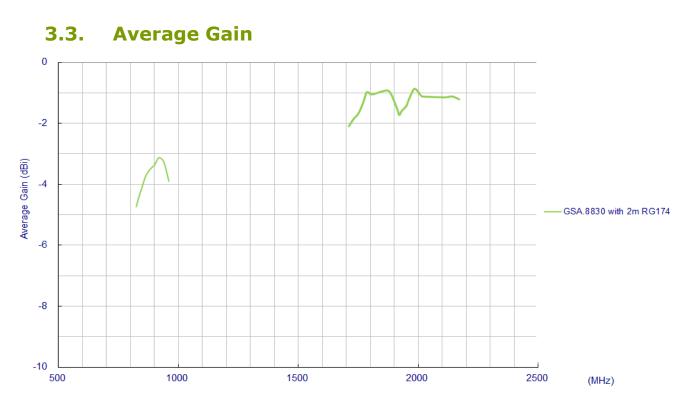
3.Antenna Characteristics



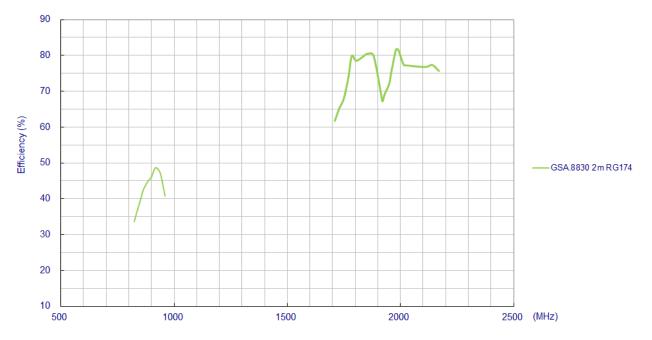
3.1. Return Loss







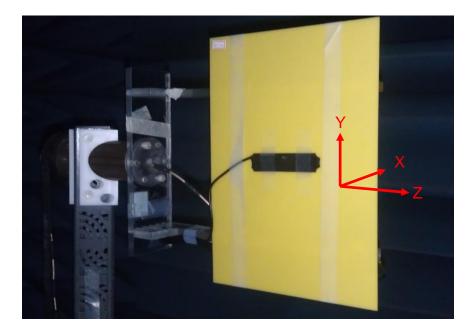
3.4. Efficiency





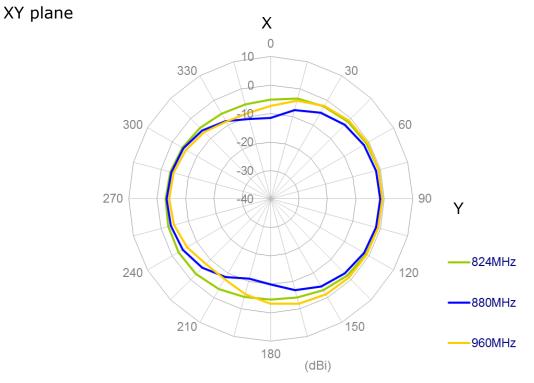
4. Antenna Radiation Patterns

Antenna setup in 3D Anechoic chamber

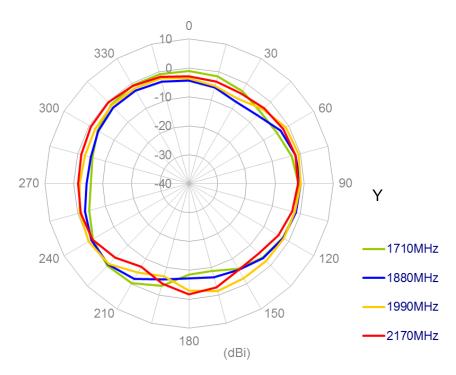




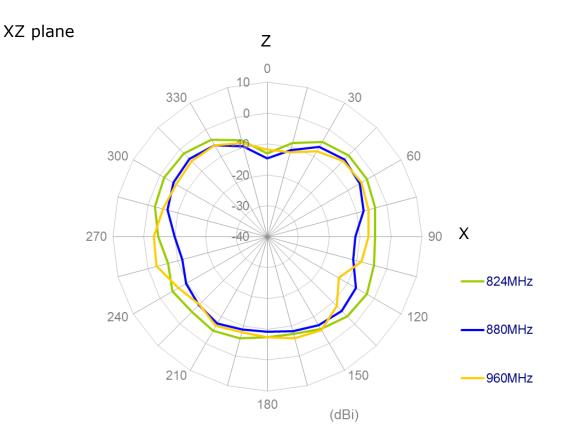
Radiation Patterns

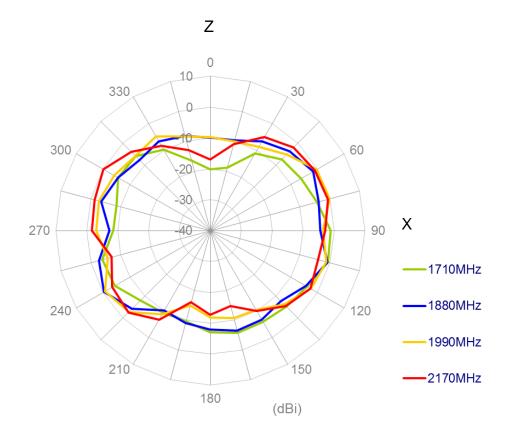














5. Drawing

