



DSRC Button Mount Antenna

Part No: DCM.59.0ZZ11

Description:

DSRC Connector Mount Antenna With FAKRA Code Z Connector

Features:

DSRC Full Band coverage Low profile Peak gain 8.5 dBi Dimensions: 34mm *34mm * 13mm RoHS and REACH Compliant

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1.





The Taoglas DCM.59 is a DSRC antenna for in-car use. The DCM.59 has been designed based on the stringent demands of the automotive industry, and with the future of DSRC applications various use cases for this antenna will continue to emerge. Some DSRC use cases gaining traction include vehicle-to-vehicle (V2V), vehicle-to-infrastructure (V2I), vehicle-to-pedestrian (V2P), and vehicle-to-cloud (V2C) communication, and are all being integrated into the next generation of vehicles.

C-V2X will be an important communication method for future automotive applications and improve road safety, reduce collisions, and allow autonomous vehicles to be used more widely, enhancing road safety even more.

Typical Applications include:

- Telematics Devices
- Parking payment systems
- Vehicle Security
- Road Safety
- Traffic Management Systems

The DCM.59 comes with a FAKRA Code Z Water blue Jack connector as standard and this can be customized subject to MOQ and NRE, contact your regional Taoglas customer support team for more information.

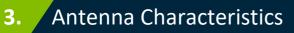


2. Specifications

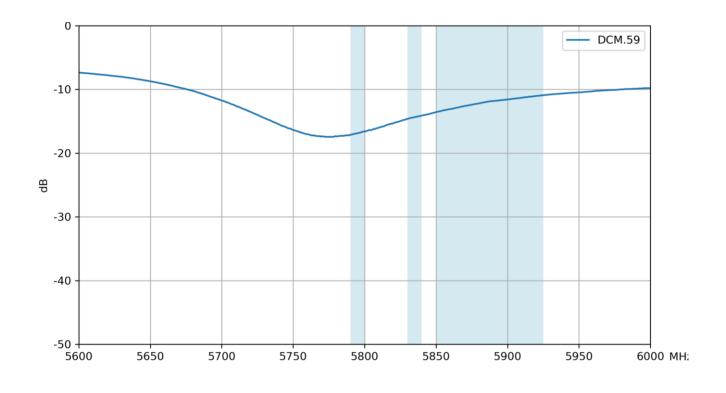
	Electrical									
Band	Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)	XPD	HPBW	Impedance	Max Input Power	Polarization	Radiation Pattern
C-V2X	5790-5925	82	-0.8	8.5	9	< 70 degrees	50 Ω	10W	RHCP	Directional

Mechanical					
Dimensions	32 x 32 x 25mm				
Weight	4g				
Plastic Material	PC				
Connector	FAKRA Code Z Water Blue Jack				
Environmental					
Temperature Range	-40°C to 85°C				
Waterproof Rating	IP52				

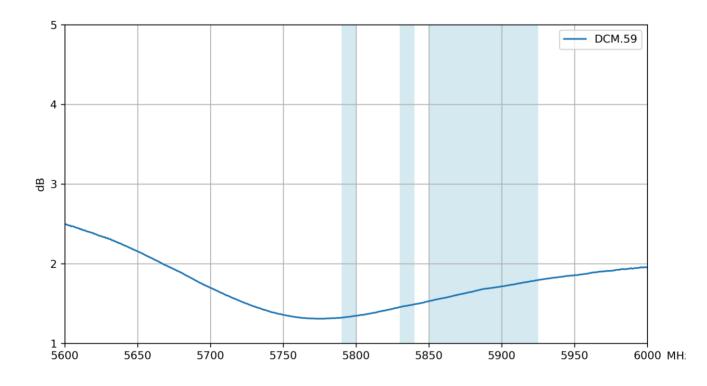






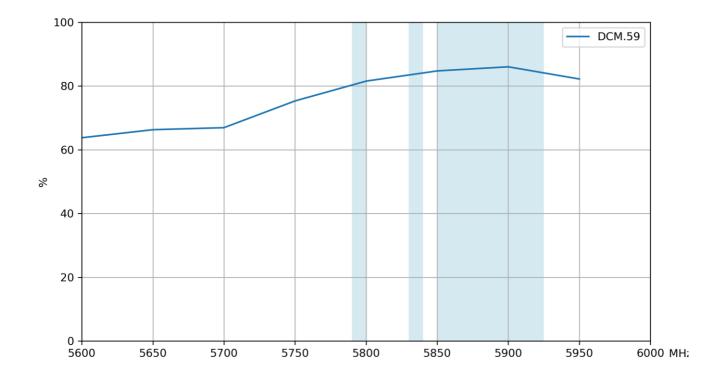


3.2 VSWR

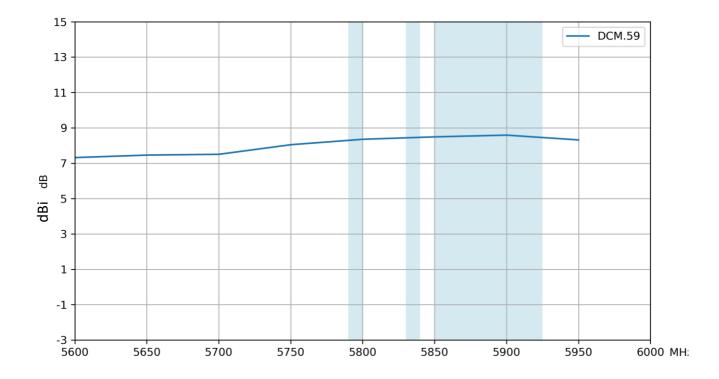




3.3 Efficiency

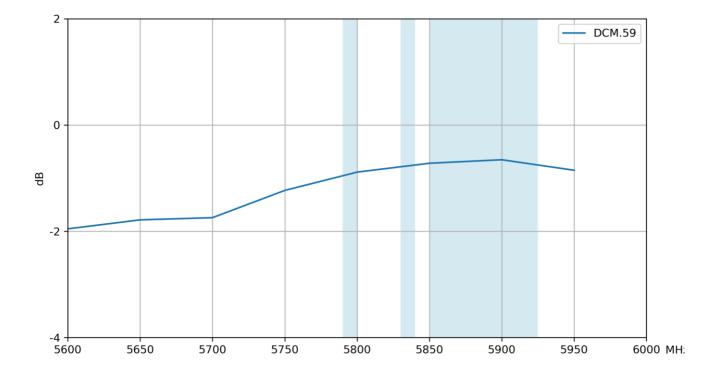


3.4 Peak Gain





3.5 Average Gain



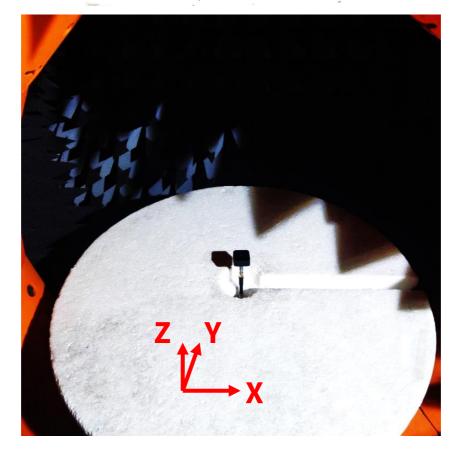


Radiation Patterns

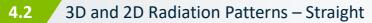


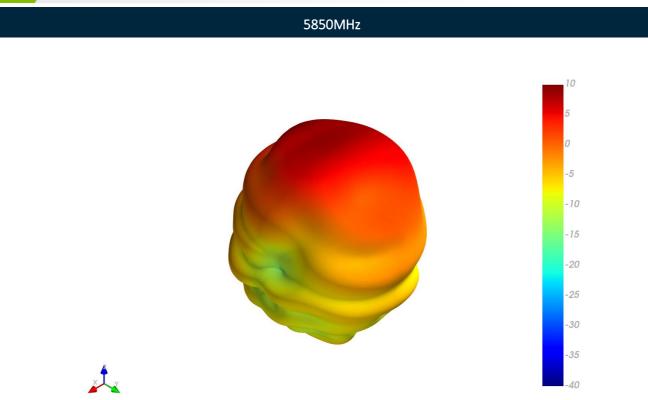
4.

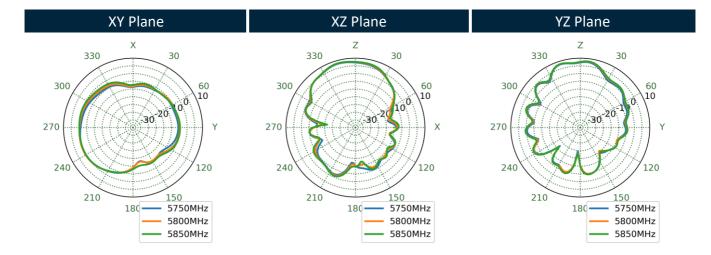




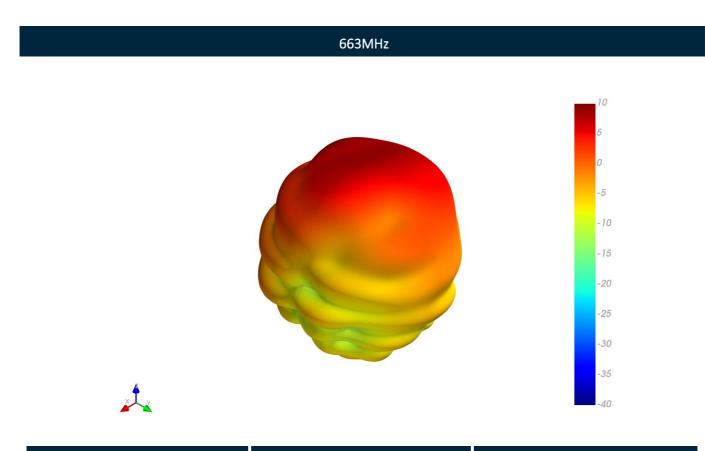


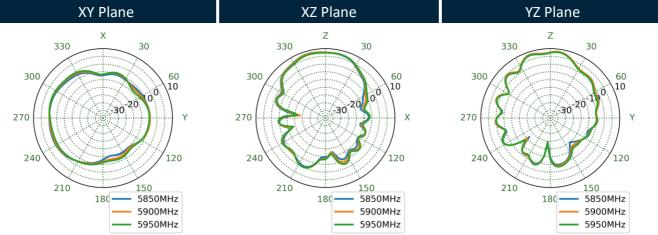






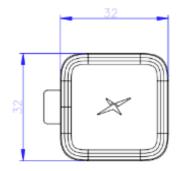


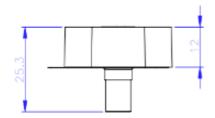






Mechanical Drawing (Units: mm) 5.





	Name	P/N	Material	Finish	QTV
1	Top Housing	000122L000000A	Bayer Makrolon 2405 PC	MT-11006,Black	1
2	Bottom Housing	000122L010000A	Bayer Makrolon 2405 PC	MT-11006,Black	1
3	Top Stamping	0005221.000000A	STPE T=0.4	Sn plating	1
4	Bottom Stamping	000522L010000A	STPE T=0.4	Sn plating	1
5	PCB	100222L000000A	FR-4	Soldermask, Green	1
ő	Adhesive Tape	001022L000000A	3M468	Natural	1
7	Fakra Connector	FK0MZPCB	Zn Alloy,PTFE,Brass,PBT	Ni Plating	1



6. Packaging





Changelog for the datasheet			
SPE-23-8-237 – DCM.59.0ZZ11			
Revision: A (Origina	Il First Release)		
Date:	2023-08-16		
Notes:			
Author:	Jack Conroy		

Previous Revisions





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