

AllDisc-S Small Cellular Antenna

Cellular Antennas (5G, LTE, CBRS, 3G, 2G)

710258, 710255



Description

Compact, low-profile, whipless cellular antenna with durable design that delivers optimal performance and support of multi-carrier voice and data networks.

Technologies

- 2G / 3G / 4G / 5G
- NB-IoT

Features

- Durable, low-profile design
- 5G ready
- Easy to install
- IP6K9K class
- Cable approved acc ECE-R118
- IATF 16949



710452 – AllDisc
bracket



710598 – Slitted nut



710206 – Extension nut
to be used on AllDisc with long
screw enabling installation
thickness 25-50mm

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The AllDisc-S Small by Smarteq, a PCTEL company, is a 5G-ready, low-profile antenna platform with durable design. Its small physical size enables a flexible and easy installation, making it perfect for Smart City, Smart Metering, EV charging, M2M applications, and load handling. The superior RF performance enables high connectivity and throughput. The AllDisc-S has been successfully tested for durability according to Volkswagen automotive test standards.

Features

- Cellular: 617-960 MHz, 1710-2690 MHz, and 3300-3800 MHz
- 5G ready
- IP6K9K class
- Cable approved according to ECE-R118
- Designed in Sweden with design registration

Applications

- Off-Highway Vehicle (OHV)
- ECU/Gateway
- M2M
- Public safety
- Smart Metering
- Smart City
- EV-chargers
- Vending machines
- Parking meters

Certifications



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Standard Configurations

Model	Elements	Cable	Cable Length	Connector	Housing Color	Mount	Accessories
710258	LTE/5G	RG316, grey	0.5m	SMA-Male, Other connector type upon request	Black	Hole mount with center screw and adhesive tape	710452 – AllDisc bracket 710598 – Slitted nut 710206 – Extension nut
710255	LTE/5G	RG316, grey	2.5m		Black		

Electrical Specifications – RF Antennas (All Models)

Frequency Ranges	VSWR ¹	Peak Gain ²	Efficiency ³	Nominal Impedance	Polarization	Radiation Characteristics	Maximum Power ⁴	DC Short
LTE / 5G								
617 - 698 MHz	≤ 4.5:1	1 dBi	50%	50Ω	Linear, vertical	Omnidirectional	10 watts	Yes
698 - 880 MHz	≤ 2:1	4.5 dBi	89%					
880 - 960 MHz	≤ 2.5:1	5 dBi	89%					
1710 - 1880 MHz		5 dBi	89%					
1710 - 2690 MHz	≤ 2.5:1		89%					
1920 - 2170 MHz		4.5 dBi	89%					
2500 - 2690 MHz		3.5 dBi	88%					
3400 - 3800 MHz	≤ 2.5:1	7 dBi	82%					

Mechanical and Environmental Specifications

Physical

Dimensions (D x H)	96 x 55 mm
Weight	~150g
Radome Construction	PC/PBT/Aluminum alloy
Operating / Storage Temperature	-40°C to +85°C
IP Class	IP6K9K

Extension Cables

Part Number	Cable Length	Connector	Gender	Color
LL58 Cable				
201417-1	3m	SMA	Female/Male	White
201417-2	5m	SMA	Female/Male	White
201417-3	10m	SMA	Female/Male	White
201417-7	5m	SMA	Female/Male	Black
Low Loss Cable				
707220	3m	SMA	Female/Male	Black
710298	5m	SMA	Female/Male	Black
201417-3	10m	SMA	Female/Male	Black

¹ VSWR values are measured at the end of 0.5m cable without a ground plane.

² Peak Gain values measured on ground plane (excluding cable)

³ Antenna efficiency measured ?

⁴ Maximum power measured at ambient temperature of 25°C

CONTACT US

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this product contact your
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Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for over 25 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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