

Smarteq™ LPCA 450 LTE and 5G Low Profile Combination Antenna

LTE 450/5G

710761, 710782



Description

Low profile antenna with a single port 450 MHz and 5G FR1 frequencies in the Smarteq™ LPCA rugged antenna platform designed to support a wide range of applications.

Optional second 5G port

Technologies

- LTE 450MHz bands
- B31, B72, B73 (450-470MHz)
- B87, B88 (410-430MHz)
- Cellular 5G (698-960/1710-5950MHz)
- Tetra

Features

- Single port 380-470MHz and 5G (698-960/1710-5950MHz)
- Low profile, height 50mm
- Rugged
- IP67
- Cable approved acc ECE-R118
- Designed in Sweden



Smarteq™ LPCA 450 LTE and 5G Low Profile Combination Antenna

LTE450 Wide

The Smarteq™ LPCA 450 LTE and 5G is a rugged, low profile combination antenna designed for use in telematics applications. The antenna is the perfect choice in applications requiring reliable 450 LTE and 5G communication such as power stations, buses, heavy vehicles, ambulances, forest machines and other M2M applications.

Features

- 380-470 MHz + 5G
- Rugged
- IP67
- Cable approved acc ECE-R118

Applications

- Power stations
- Buses
- Heavy Vehicles
- Ambulances
- Forest Machines
- M2M

Certifications



SPECIFICATIONS

Smarteq™ LPCA 450 LTE and 5G Low Profile Combination Antenna

LTE450 Wide

Selection of LPCA Models

Part Number	Connector Type
710761	SMA-M (450+5G)
710782	SMA-M (450+5G), SMA-M (5G)

Electrical Specifications (All Models)

	Frequency Ranges				
Main 450 + 5G (Free Space)	380-470MHz	698-790MHz	790-960MHz	1710-2690MHz	3400-5950MHz
Peak Gain	2.53 dBi	2 dBi	3 dBi	7.5 dBi	7.9 dBi
Efficiency	85%	69%	53%	78%	75%
VSWR	≤ 2.1:1	≤ 3:1	≤ 4:1	≤ 2:1	≤ 2:1
Nominal Impedance	50Ω				
Polarization	Linear				
Max. Power	10W				
Main 450 + 5G (1m Ground Plane)					
Peak Gain	1.7 dBi	3 dBi	4.2 dBi	4.8 dBi	3 dBi
Efficiency	45%	63%	49%	52%	25%
VSWR	≤ 6:1	≤ 3:1	≤ 4:1	≤ 2:1	≤ 2:1
Nominal Impedance	50Ω				
Polarization	Linear				
Max. Power	10W				
	Frequency Ranges				
Secondary 5G (Free Space)	698-790MHz	790-960MHz	1710-2690MHz	3400-5950MHz	
Peak Gain	1.7 dBi	3 dBi	4.2 dBi	4.8 dBi	
Efficiency	45%	63%	49%	52%	
VSWR	≤ 6:1	≤ 3:1	≤ 4:1	≤ 2:1	
Nominal Impedance	50Ω				
Polarization	Linear				
Max. Power	10W				
Secondary 5G (1m Ground Plane)					
Peak Gain	4.5 dBi	4.8 dBi	6.8 dBi	8 dBi	
Efficiency	88%	88%	80%	72%	
VSWR	≤ 3:1	≤ 4:1	≤ 2:1	≤ 2:1	
Nominal Impedance	50Ω				
Polarization	Linear				
Max. Power	10W				

Mechanical and Environmental Specifications (All Models)

Dimensions (L x W x H)	280 x 120 x 50mm
Installation	Hole mount, Ø19mm; Installation thickness ≤ 6mm
Connector	SMA Male (450+5G) SMA Male (5G)
Cable	RG316 0,5 m (450+5G) RG316 0,5 m (5G)
Color	Black, Green
IP Class	IP67
Temperature (Storage / Operating)	-40°C to +85°C / -40°C to +85°C

CONTACT US

For more information about
this product contact your
sales representative or visit
➤ pctel.com/antenna-products

Solving Complex Wireless Challenges

PCTEL, an Amphenol Company, 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 decades, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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