

Datasheet

CELLULAR (2G/3G/4G)/ GNSS (GPS/GLONASS)/ WLAN (2.4GHz/5.8GHz) Antenna

CGNW 702659 SF S/series Pt no. 955-181-...

- Combination antenna for positioning, data-services and short range radio services
- Terrestrial based transmission and satellite based positioning
- Embedded high performance LNA with ceramic patch antenna
- Screw mounting on metallic ground
- Street vehicle roof mount installation



Subject to alterations

Technical data

Dimensions	95 x 57 x 72 mm	
Housing materials	PA 6	
Weight	ca.	178 g
Tightening torque	max.	7 Nm
Temperature range	-40 °C - +85 °C / -40 °F to + 185 °F	
Protection class	IP 6k9K (acc. ISO 20653)	
Cable type	RG 174	
CELLULAR (2G/3G/4G)		
Frequency range	LTE-LB:	698 - 862 MHz
	GSM 850:	824 - 894 MHz
	GSM 900:	880 - 960 MHz
	GSM 1800:	1710 - 1880 MHz
	GSM 1900:	1850 - 1990 MHz
	UMTS:	1920 - 2170 MHz
	LTE-HB:	2305 - 2690 MHz
Impedance	50 Ohm	
Return loss	> 12 dB	
Decoupling	> 40 dB	
Load capacity	max.	8 W pulsed acc. GSM standard
VSWR	< 3:1	
Gain	2,5 dBi*	
GNSS (GPS/GLONASS)		
Frequency range	1,575 MHz - 1610 MHz	
Return loss	> 12 dB	
Impedance	50 Ohm	
Gain	typ.	2 dBic*
Amplification	typ.	27 ±3 dB
Noise figure	< 1,9 ±0,3 dB	
Voltage supply	2,9 - 5,5 VDC	
Current consumption	≤ 12 mA ± 3 mA at 3,3 V	

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WLAN (2.4GHz/5.8GHz)		
Frequency range	IEEE 802.11 b, g: IEEE 802.11 p:	2400 - 2484 MHz 5755 - 5925 MHz
Impedance		50 Ohm
Load capacity	IEEE 802.11 b, g: IEEE 802.11 p:	max. 200 mW (1 W only USA) 8 W EIRP (5,79 - 5,81 GHz) 2 W EIRP (5,85 - 5,92 GHz)
VSWR		< 2,5:1
Gain		2.5 dBi* @ 2.4 GHz; +3 dBi* @ 5.8 GHz
Diagnostic resistor		10 kOhms

*dBi: referenced to an isotropic radiator

*dBic: referenced to an isotropic radiator, circular polarization

Versions

	CELL	GNSS	WLAN
-001 CGNW 702659 SF S/SMA/0.15	150 mm SMA m	150 mm SMAm	150 mm SMAm
-002 CGNW 702659 SF S/FAKRA/D/C/E/0.3	325 mm FAKRAf, D	305 mm FAKRAf, C	315 mm FAKRAf, E
-003 CGNW 702659 SF S/FME/3.0	3000 mm FMEf	3000 mm FMEf	3000 mm FMEf
-004 CGNW 702659 SF S/SMA/5.0	5000 mm SMAm	5000 mm SMAm	5000 mm SMAm
-005 CGNW 702659 SF S/FAKRA/D/C/E/5.0	5000 mm FAKRAf, D	5000 mm FAKRAf, C	5000 mm FAKRAf, E
-006 CGNW 702659 SF S/FME/SMA/FME/5.0	5000 mm FMEf	5000 mm SMAm	5000 mm FMEf
-007 CGNW 702659 SF S/FME/SMB/SMA/0.25	250 mm FMEf	250 mm SMBf	250 mm SMAm
-008 CGNW 702659 SF S/FAKRA/D/C/K/2.0	2000 mm FAKRAf, D	2000 mm FAKRAf, C	2000 mm FAKRAf, K
-009 CGNW 702659 SF S/SMA/3.0	3000 mm SMAm	3000 mm SMAm	3000 mm SMAm
-010 CGNW 702659 SF S/FAKRA/D/C/K/5.0	5000 mm FAKRAf, D	5000 mm FAKRAf, C	5000 mm FAKRAf, K
-011 CGNW 702659 SF S/FAKRA/D/C/B/0.3	325 mm FAKRAf, D	325 mm FAKRAf, C	325 mm FAKRAf, B
-012 CGNW 702659 SF S/FAKRA/D/C/I/0.3	300 mm FAKRAf, D	300 mm FAKRAf, C	300 mm FAKRAf, I

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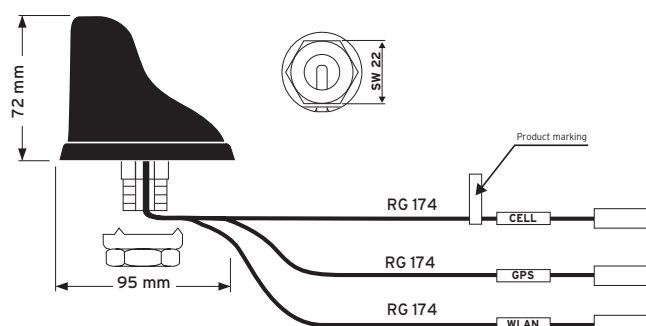
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Technical drawings



Installation

