



Wireless Solution

GPS / GNSS / WLAN / Bluetooth(BLE) / LTE
Antennas & Modules



WIESON International Co., Ltd, a Member of Wieson Group

IoT / Automotive / Navigation / M2M application



GNSS Antenna

GPS / GLONASS / Beidou / Galileo

PATCH ANTENNA



Dimensions(mm):

25*25*4
25*25*2
18*18*4
18*18*2
15*15*4
15*15*2
12*12*4
12*12*2
10*10*4
20*6*4
16*6*4

Structure:

Single Deviation
Double Deviation

Internal Active Antenna



Operation Voltage : 3.0±0.3V

Gain : 18±3dB

Output VSWR : 2.0 MAX.

Noise Figure : 2.0 MAX.

DC Current : 5mA MAX.

Dimensions(mm):

27*27*6.4 28*28*4.6

18*18*6.6 15*15*6.8

13*13*6.8 12*12*6.8

10*10*6.8 9*9*6.8

20*6*6.8 16*6*6.8

PCB size, LNA gain, Cable length, and connector can be customized.

External Active Antenna



X-Type(GPS, GPS / GLONASS)

Dimensions(mm): 40*35*13mm

Operation Voltage : 3.0~5.0V

Gain : 26dB Typical

Output VSWR : 2.0 MAX.

Noise Figure : 1.5 MAX.

DC Current : 15.5mA MAX.



J-Type(GPS / GLONASS / Beidou / Galileo)

Dimensions(mm) : 40*35*13mm

Operation Frequency : 1561 / 1575 / 1602MHz

LNA Gain : 28 dB

Noise Figure : 1.5 dB

Output VSWR : 2max

DC Voltage : 1.8~5V

DC Current : 11.5mA

Polarization : RHCP



E-Type(GPS + GSM)

Dimensions(mm) : Φ76.8*15.8mm

◆GPS Active Antenna :

Operation Frequency : 1575.42MHz

LNA Gain : 27dB Typical

Noise Figure : 1.5dB

Output VSWR : 1.5 MAX.

DC Voltage : 3.3V

DC Current : 12.5mA MAX.

Polarization : RHCP

◆GSM Antenna :

Operation Frequency : 824-960MHz/

1710~2170MHz

VSWR : 2.0 MAX.

Gain : 0dbi@900MHz/1dbi@1800MHz

Polarization : Linear

Survey Antenna

GPOT000-019

Dimensions(mm) : 148*60mm

Operation Frequency : 1555~1610MHz

LNA Gain : 32 dB

Noise Figure : 1.5 dB

Output VSWR : 2max

DC Voltage : 3~9V

DC Current : 15mA max

Polarization : RHCP



GNSS Module

GPS / GLONASS / Beidou / Galileo

GPS/GNSS Receiver Module



WM8001GR

Chipset: MT3339
Sensitivity: -165dBm (Built in LNA)
Cold Start: 35 sec.
Current: Acquisition 25 mA ,
Tracking 18 mA
Dimensions: 16.0x13.3x2.6mm
General: GPS



WM8022GR

Chipset: MT3333
Sensitivity: -165dBm (Built in LNA)
Cold Start: 35 sec.
Current: Acquisition 26 mA ,
Tracking 20 mA
Dimensions: 16.0x12.0x2.7mm
General: GPS / GLONASS /
Galileo / Beidou



WM8112GR

Chipset: MT3333
Sensitivity: -165dBm (Built in LNA)
Cold Start: 35 sec.
Current: Acquisition 26 mA ,
Tracking 20 mA
Dimensions: 10.0x9.7x2.2mm
General: GPS / GLONASS /
Galileo / Beidou



WM9000GR

Chipset: SiRFstarIV
Sensitivity: -163dBm
Cold Start: 35 sec.
Current: Less than 60mA
Dimensions: 9.6x8.0x1.6mm
General: GPS

GPS/GNSS Smart Antenna



WM9050GR

Chipset: SiRFstarIV
Sensitivity: -163dBm
Cold Start: 35 sec.
Current: Less than 60mA
Dimensions: 14.0x14.0x7.3mm
General: 1. GPS
2. w/ 12x12mm patch antenna



GM27-3

Chipset: SiRFstarIV
Sensitivity: -163dBm
Cold Start: 35 sec.
Current: Less than 70mA
Dimensions: 20.1x14.4x4.3mm
General: 1. GPS
2. w/ 12x12mm patch antenna



GMP06 / GMP0633

Chipset: MT3339 / MT3333
Sensitivity: -165dBm
Cold Start: 35 sec.
Current: Acquisition 25 mA ,
Tracking 20 mA
Dimensions: 16x16x6.7mm
General: GPS / GLONASS /
Galileo / Beidou



GMP051 2.0 / V3.0

Chipset: MT3339 / MT3333
Sensitivity: -165dBm
Cold Start: 35 sec.
Current: Acquisition 26 mA ,
Tracking 20 mA
Dimensions: 22x22x8mm
General: GPS / GLONASS /
Galileo / Beidou

CATV Products



EOC Market

Function: Signal separation
Chip Platform: MSTAR
Qualcomm



CMTS Market

Function: Signal separation
Chip Platform: Broadcom,
Intel, ST



MOCA Market

Function: Data and television
model separation or mixing
Chip Platform: MAXLINER, ST,
Broadcom



WOC Market

Function: WiFi signal and radio
and television signals separating
and mixing

WLAN/BT Module

WLAN Module



WM1032WU

Chipset: RTL8188EUS
Dimensions: 25x 12x 2.2mm
General: 1. 1T1R
2. IEEE802.11b/g/n



WM2012CU

Chipset: RTL8192EU
RTL8761AW
Dimensions: 25.0x 25.0x 2.2mm
General: 1. 2T2R
2. IEEE802.11b/g/n
3. Bluetooth optional



WM1126CU

Chipset: RTL8821AU
Dimensions: 19.0x 17.0x 2.0mm
General: 1. 1T1R
2. IEEE802.11a/b/g/n
and 802.11ac draft
3.0 compliant



WM2000CU

Chipset: RTL8812AU-CG
RTL8761ATV
Dimensions: 25.0x 24.0x 2.0mm
General: 1. 2T2R
2. IEEE802.11a/b/g/n
and 802.11ac draft
2.0 compliant
3. Bluetooth optional

IoT Module



WM1331CD

Chipset: RTL8711AM
Dimensions: 22.25x 19.0x 2.2mm
General: 1. SoC(MCU+Wifi+NFC) 1T1R
2. IEEE802.11b/g/n
3. SPI,UART,I2C,GPIO,PWM



WM1335CD

Chipset: RTL8195AM
Dimensions: 22.25x 19.0x 2.2mm
General: 1. SoC(MCU+Wifi+NFC)
2. 1T1R
3. IEEE802.11b/g/n
4. SDIO,SPI,USB,UART, ETHERNET,
I2C,I2S,PCM



WM6000WD

Chipset: MT7620A
Dimensions: 55x 27.5x 2.0mm
General: 1. SoC(MCU+Wifi)
2. 2T2R
3. IEEE802.11b/g/n

Bluetooth / BLE Module



WM9800BD

Chipset: CSR1010
Dimensions: 18x 13x 2.2mm
General: Bluetooth 4.0 Low
Energy



WM9886BD

Chipset: CSR8670C
Dimensions: 10x 20x 1.8mm
General: Classic BT, and
Bluetooth v4.0 dual



WM9855BD

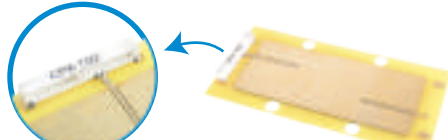
Chipset: CSRBC05
Dimensions: 23.2x 12x 2.0mm
General: Classic BT



BI211 V1.0

Chipset: CC2541
Dimensions: 18x12x2.2mm
General: 1. Bluetooth 4.0 Low Energy
2. Single chip radio and baseband IC

LTCC Chip Antenna

LTCC Antenna					
Type	Dimensions(mm)	Center Frequency(MHz)	BW(MHz)	Peak Gain(dBi)	Design
A20	2.0x1.25x0.6	2450	65	2.7	Loop
A21	2.0x1.25x0.95	2450	80	4.16	Monopole
A27	3.2x1.6x0.6	2450	100	5.54	Loop
A28	5.0x2.0x1.0	2545 / 5550	100/1000	0.5 / 3.65	Loop
A32	12.0x4.0x1.6	915	15	3.42	Monopole
A33	3.2x1.6x1.2	2545 / 5550	100/800	2.23 / 4.05	Loop
A34	12.0x4.0x1.6	433	10	-1.72	Monopole
A35	3.2x1.6x1.2	2450	100	5.19	Monopole
A36	5.2x2.0x1.2	2450	100	4.97	Monopole
A37	12.0x4.0x1.6	868	20	2.63	Monopole
A41	3.2x1.6x1.0	1575	40	4.18	Loop
J01	40x5.0x6.6	698~960 MHz , 1700~2700 MHz			

RFID Tags and Readers

Center Frequency	868MHz	915MHz	923MHz
Dimensions	18*18*4mm / 25*25*4mm / 36.5*36.5*4mm / 45*45*6mm / 62.5*62.5*6mm / 80*80*6mm		
Bandwidth	≥1.3MHz	≥2MHz	≥1.5MHz
V.S.W.R. (in Center Frequency)	≤1.5	≤1.5	≤1.5
Polarization	R.H.C.P	R.H.C.P	R.H.C.P
Impedance(Ω)	50	50	50

Microwave Dielectric Components



About Wieson International Co., LTD.

Factories in China



Laboratory in Taipei Office, Taiwan

Microwave Communication Testing

Antenna Chamber Room : 325 cm (W) x 285 cm (H) x 640 cm (L) , 8 00 MHz to 18 GHz

1. Quiet Zone Size :

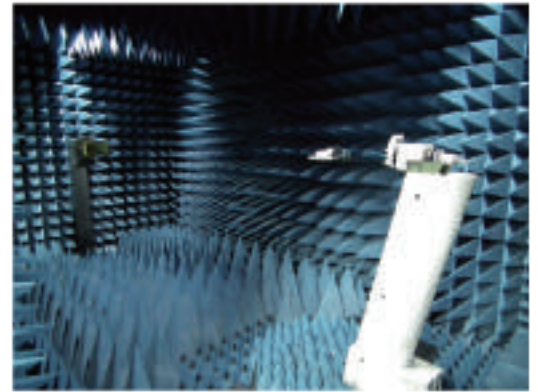
> 70 cm @0.9 GHz , > 50 cm @1.8 GHz , > 44 cm @2.4 GHz ,
> 28 cm @5.8 GHz , > 16 cm @18 GHz.

2. Quiet Zone Ripple :

< +/- 0.5 dB @1.5~2.4 GHz ,
< +/- 0.25 dB @2.4~18GHz.

3. Linear and Circular Polarization Gain and Radiation Pattern Measurement.

Reference Standard : IEEE149, CTIA OTA



High Frequency Testing

Agilent 54750+54751+54754 Time Domain Reflectometry Agilent N 5230A
PNA + 8753ES Vector Network Analyzer
Impedance, Attenuation, Propagation Delay, Cross talk, Skew, Risetime
Degradation

Reference Standard : EIA-364-90, EIA-364-101 , EIA-364-103 , EIA-364-108

ISO 9001:2008, ISO 14001:2004, ISO / TS16949:2002, ISO 17025, UL / CE / CSA certificate



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