

# GPS Antenna Series

## GPS Antenna Series



### Feature

- Ceramic Patch
- Dual Ceramic Patch
- LNA Patch Module
- GPS Antenna Module
- Quad-Filar Antenna

### Application

- Vehicle navigation device
- Vehicle controlling system
- Personal portable terminal



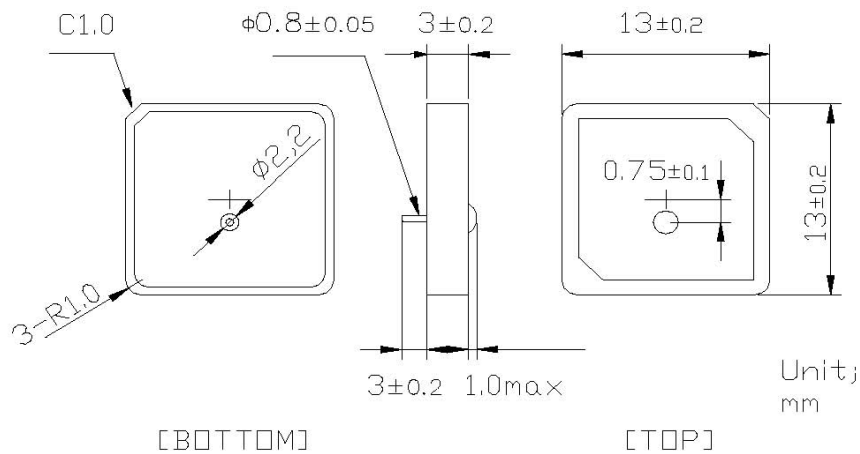
## Ceramic & Dual Ceramic Patch

**Specification**

Part Number	Frequency Range(MHz)	B.W. (@-10dB)	VSWR	Gain (dBi)	Ground	Dimension (mm)
RCP1575B10T4S20D	1575	10	-	3	50 × 50	20 × 20 × 4t
RCP1575B20T3S35D	1575	20	-	6.5	70 × 70	35 × 35 × 3t
RCP1578B15T4S35D	1578	15	2.0	6	50 × 50	35 × 35 × 3t
RCP1580B20T4S25D	1580	20	2.0	5	70 × 70	25 × 25 × 4t
RCP1580B4T3S13D	1580	4	-	-1 @ Zenith	30 × 30	13 × 13 × 3t
RCP1580B10T4S18D	1580	10	-	3	50 × 50	18 × 18 × 4t
RCP1582B22T4S25D	1582	22	-	5	70 × 70	25 × 25 × 4t
RCP1582B12T4S20D	1582	12	2.0	4	50 × 50	20 × 20 × 4t
RCP1585B10T4S18D	1585	10	2.0	3	50 × 50	18 × 18 × 4t
RCP1595B7T4S15D	1595	7	2.0	1	50 × 50	15 × 15 × 4t
RCP1595B6T4S13D	1595	6	2.0	0	50 × 50	13 × 13 × 4t
RCP1597B4T3S15D	1597	4	-	-1 @ Zenith	50 × 50	15 × 15 × 3t

Part Number	Frequency Range(MHz)	B.W. (@-10dB)	VSWR	Gain (dBi)	Ground	Dimension (mm)
RDP1227/1575B10/20T6S50	1227.6 1575.42	10 20	-	5.0 ~ 7.0	70 × 70	50 × 50 × 6t
RDP1575/2642B20/60T6S35	1575 2642	20 60	-	5.0 ~ 7.0	50 × 50	35 × 35 × 6t
RDP1575/2338B20/50T6S35	1575 2338	20 50	-	5.0 ~ 7.0	50 × 50	35 × 35 × 6t

**Dimension**



- RCP\*\*\*\*B\*\*T\*\*S\*\*D**
- ① ②      ③      ④      ⑤      ⑥      ⑦
- ① RTx Technology Co., Ltd.
  - ② Ceramic Patch Antenna
  - ③ Center Frequency
  - ④ Band-width
  - ⑤ Thickness
  - ⑥ Square
  - ⑦ Hole Location (C : Center, D : Diagonal)

- RDP\*\*\*\*B\*\*T\*\*S\*\***
- ① ②      ③      ④      ⑤      ⑥
- ① RTx Technology Co., Ltd.
  - ② Dual Ceramic Patch Antenna
  - ③ Center Frequency
  - ④ Band-width
  - ⑤ Thickness
  - ⑥ Square



# LNA Patch Module

## Specification

### RGL1585G25H5C(With LNA Module)

#### Ceramic Patch Antenna

Part Number	RCP1585B15T3S35D
Frequency Range(MHz)	1585
B.W. (@-10dB)	15
Gain (dBi)	5
Ground	35 × 35
Dimension (mm)	35 × 35 × 3t

#### LNA

##### Low Noise Amplifier

Frequency Range(MHz)	1575.42 ± 1.023
V.S.W.R.	2.0 (max.)
Gain (dB)	25 ± 2
Impedance	50 Ohm
Noise Figure	0.5 dB (Typ.) ,1.2 dB (max.)
Attenuation	15dB (min.) @ Fo + 50 MHz
	20dB (min.) @ Fo - 50 MHz
Voltage	DC 3~5 ± 0.3(V)
Current	20 mA (Typ.) ,30mA (max.)

##### Mechanical

Cable	CO-6F-FHSB (Optional)
Connector	H.FL-LP (Female). (Optional)

### RGL1592G24R4B(With LNA Module)

#### Ceramic Patch Antenna

Part Number	RCP1592B20T4S25D
Frequency Range(MHz)	1592
B.W. (@-10dB)	20
Gain (dBi)	5
Ground	70 × 70
Dimension (mm)	25 × 25 × 4t

#### LNA

##### Low Noise Amplifier

Frequency Range(MHz)	1575.42 ± 1.023
V.S.W.R.	2.0 (max.)
Gain (dB)	24 ± 2
Impedance	50 Ohm
Noise Figure	0.8 dB (Typ.) ,1.2 dB (max.)
Attenuation	15dB (min.) @ Fo + 50 MHz
	20dB (min.) @ Fo - 50 MHz
Voltage	DC 3~5 ± 0.3(V)
Current	20 mA (Typ.) ,30mA (max.)

##### Mechanical

Cable	RG-178 4cm (Optional)
Connector	Optional



# LNA Patch Module

## RGL1588G25H5A(With LNA Module)

### Ceramic Patch Antenna

Part Number	RCP1588B10T4S18D
Frequency Range(MHz)	1588
B.W. (@-10dB)	10
Gain (dBi)	3
Ground	50 × 50
Dimension (mm)	18 × 18 × 4t

### LNA

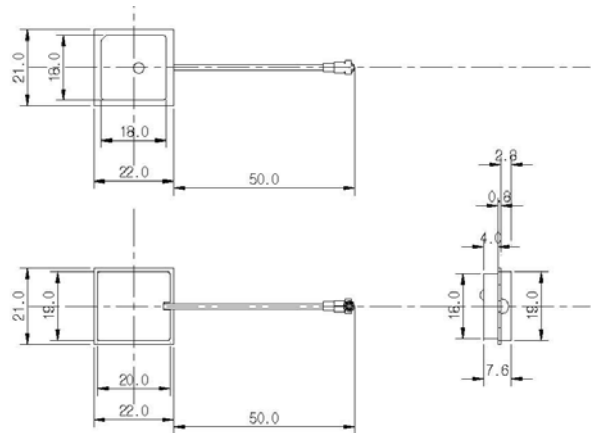
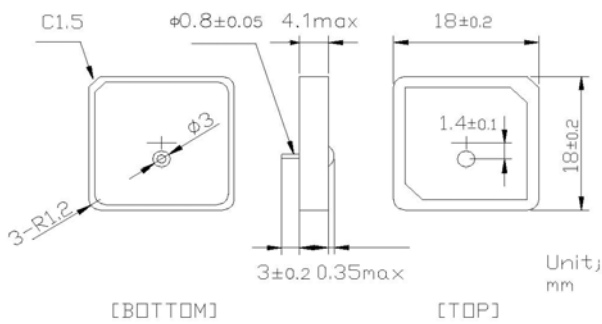
#### Low Noise Amplifier

Frequency Range(MHz)	1575.42 ± 1.023
V.S.W.R.	2.0 (max.)
Gain (dB)	25 ± 2
Impedance	50 Ohm
Noise Figure	1.2 dB (Typ.) ,1.8 dB (max.)
Attenuation	15dB (min.) @ Fo + 50 MHz
	20dB (min.) @ Fo - 50 MHz
Voltage	DC 3 ± 0.3(V)
Current	20 mA (Typ.) ,30mA (max.)

#### Mechanical

Cable	CO-6F-FHSB (Optional)
Connector	H.FL-LP (Female). (Optional)

### Dimension



**RGL\*\*\*\*G\*\*\*H\* C**

① ② ③ ④ ⑤ ⑥ ⑦

- ① RTx Technology Co., Ltd.
- ② GPS LNA Module Antenna
- ③ Center Frequency
- ④ Gain
- ⑤ Connector type
- ⑥ Length
- ⑦ Size ( A : 18 × 18, B : 25 × 25, C : 35 × 35 )



# GPS Antenna Module

## Specification

### RGC1575HM5(With LNA Module)

#### Ceramic Patch Antenna

Part Number	RCP1580B20T4S25D
Frequency Range(MHz)	1580
B.W. (@-10dB)	20
Gain (dBi)	5
Ground	70 × 70
Dimension (mm)	25 × 25 × 4t

#### LNA

##### Low Noise Amplifier

Frequency Range(MHz)	1575.42 ± 1.023
V.S.W.R.	2.0 (max.)
Gain (dB)	30 ± 2
Impedance	50 Ohm
Noise Figure	0.8 dB (Typ.) ,1.5 dB (max.)
Attenuation	15dB (min.) @ Fo + 50 MHz
	20dB (min.) @ Fo - 50 MHz
Voltage	DC 3 ~ 5 ± 0.3(V)
Current	20 mA (Typ.) ,30mA (max.)

##### Mechanical

Cable	RG-178 5m (Optional)
Connector	MCX (Optional)
Mount Type	Magnetic
Case Material	PCABS

### RGS1575HS5(With LNA Module)

#### Ceramic Patch Antenna

Part Number	RCP1592B20T4S25D
Frequency Range(MHz)	1592
B.W. (@-10dB)	20
Gain (dBi)	5
Ground	70 × 70
Dimension (mm)	25 × 25 × 4t

#### LNA

##### Low Noise Amplifier

Frequency Range(MHz)	1575.42 ± 1.023
V.S.W.R.	2.0 (max.)
Gain (dB)	30 ± 2
Impedance	50 Ohm
Noise Figure	0.8 dB (Typ.) ,1.5 dB (max.)
Attenuation	15dB (min.) @ Fo + 50 MHz
	20dB (min.) @ Fo - 50 MHz
Voltage	DC 3 ~ 5 ± 0.3(V)
Current	20 mA (Typ.) ,30mA (max.)

##### Mechanical

Cable	RG-178 5m (Optional)
Connector	SMA (Optional)
Mount Type	Magnetic
Case Material	PCABS

**R G C \* \* \* \* H M 5**

① ② ③ ④ ⑤ ⑥ ⑦

① RTx Technology Co., Ltd.

② GPS Antenna

③ type ( C : Circle, S : Square )

④ Center Frequency

⑤ HEMT type

⑥ Connector type ( M : MCX, S : SMA )

⑦ Length

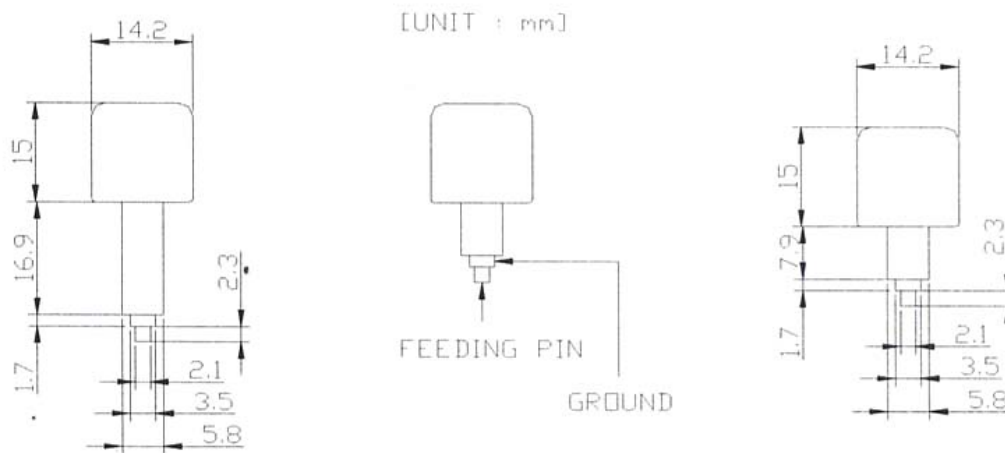


# Quad-Filar Antenna

## Specification

Part Number	Frequency Range(MHz)	B.W. (@-10dB)	Impedance (Ohm)	Gain (dBi)	Polarization
RQF1575B10	1575	10	50	-3.0 ~ 0	Right hand Circular Polarization
RQF2338B10	2338	50	50	-3.0 ~ 0	Left hand Circular Polarization
RQF2642B30	2642	30	50	-3.0 ~ 0	Right hand Circular Polarization

## Dimension



**R** **QF** **\*\*\*\*** **B\*\***

- ① RTx Technology Co., Ltd.
- ② Quad-Filar Antenna
- ③ Center Frequency
- ④ Band-width