Cirocomm Technology Corp.

Product Search Search

Products

Dielectric Filter

LNB

GPS

WIFI 2.4GHz

WIFI 5G/5.8GHz

GPS/Glonass/Beidou

External Active

Embeded Active

Passive

Pin Type - Ceramic Antenna

SMD Type - Ceramic Antenna

Chip Type

GSM/LTE/WCDMA

Dielectric

FPC/FCB type

LDS

Mechenical

External

Wifi/2.4G/5G/5.8G

Chip Antenna

FPC/PCB type

Mechenical

Patch antenna

RFID/NFC

RFID Reader

NFC

Iridium

SMD Type

Pin Type

Core Technology

Core Technology

Passive Antenna Road Map

Filter & Resonator Review

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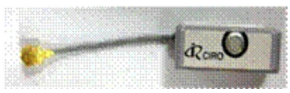
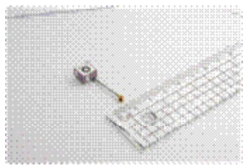
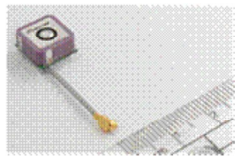
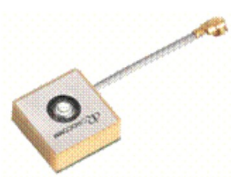
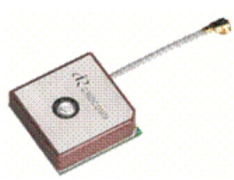
Product Introduction

Embeded Active

Features:

- 1-3 stage LNA design.
- Low noise figure.
- Customize antenna frequency and matching support.
- High gain, high directivity.
- Customize PCB layout, connectors and cables.

Product Picture			
Model No.	GBA-D12A	GBA-B04A	GBA-A0X
Operation Temperature	- 20℃ to + 85℃	- 20℃ to + 65℃	- 30℃ to + 85℃
Storage Temperature	- 40℃ to + 105℃	- 30℃ to + 105℃	- 40℃ to + 105℃
Relative Humidity	40% to 95%	40% to 95%	40% to 95%
Input Voltage	Min:2.7 V Typ: 3.0V Max:3.3V	Min:2.7 V Typ: 3.0V Max:3.3V	Min:2.7 V Typ: 3.0V Max:3.3V
Current Consumption	At 3.0 V Typ: 4mA Max: 6mA	At 3.0 V Typ: 3mA Max: 5mA	At 3.0 V Typ: 3mA Max: 5mA
RF Cable	RF Coaxial Cable,ψ0.8 ± 0.1mm,	RF Coaxial Cable,ψ0.8 ± 0.1mm,	RF Coaxial Cable,ψ0.8 ± 0.1mm,
	L =30+/- 2.0 mm	L =25+/- 2.0 mm	L =88 +/- 2.0 mm
RF Connector	I-PEX	I-PEX (F)	I-PEX
Antenna Dimensions	16mm*6mm*4mm	9mm*9mm*4mm	10mm*10mm*4mm
Frequency Range	1575.42 ± 1.023 MHz.	1575.42 ± 1.023 MHz.	1575.42 ± 1.023 MHz.
GAIN	- 2 dBi Typ. @zenith	-3.5 dBicTyp. @zenith(15mm*9mm Grand)	-4 dBicTyp. @zenith(with 30*30mm Ground)
Polaration	Linear	RHCP	RHCP
Frequency Range	1575.42 ± 1.023 MHz	1575.42 ± 1.023 MHz	1575.42 ± 1.023 MHz
Gain	13 dB Min. 15 dB Typ.(+ 25 ℃± 5℃)	13 dB Min. 15 dB Typ.(+ 25 ℃± 5℃)	13 dB Min. 15 dB Typ.(+ 25 ℃± 5℃)
Noise Figure	1.5 dB Typ. (+ 25 ℃ ± 5℃)	1.4 dB Typ. (+ 25 ℃ ± 5℃)	1.4 dB Typ. (+ 25 ℃ ± 5℃)
		1.8 dB Max. (+ 85 ℃)	1.8 dB Max. (+ 85 ℃)
1.0Output Impedance	50Ω	50Ω	50Ω
Output VSWR	2.0 Max	2.0 Max	2.0 Max
Frequency Range	1575.42 ± 1.023MHz	1575.42 ± 1.023MHz	1575.42 ± 1.023MHz
Gain	At 90° 13 ± 4dBi	At 90° 11.5± 4dBic	At 90° 11 ± 5dBic
Output Impedance	50Ω	50Ω	50Ω
Output VSWR	2.0 Max	2.0 Max	2.0 Max
Specification Download			

Product Picture			
Model No.	GBA-936	GBA-219	GBA-524
Operation Temperature	- 20℃ to + 65℃	- 20℃ to + 65℃	- 20℃ to + 65℃

Storage Temperature	- 30℃ to + 75℃	- 30℃ to + 75℃	- 30℃ to + 75℃
Relative Humidity	40% to 95%	40% to 95%	40% to 95%
Input Voltage	Min:2.7 V Typ: 3.0V Max:3.3V	Min:2.7 V Typ: 3.0V Max:3.3V	Min:2.7 V Typ: 3.0V Max:3.3V
Current Consumption	At 3.0 V Typ: 3.5mA Max: 5mA	At 3.0V Min:2mA Typ: 4.2mA Max: 5mA	At 3.0 V Typ: 3mA Max: 5mA
RF Cable	RF Coaxial Cable,ψ1.13 ± 0.1mm,	RF Coaxial Cable,ψ1.13± 0.1mm,	RF Coaxial Cable,ψ1.13 ± 0.1mm,
	L =30+/- 2.0 mm	L = 36.5±2.0mm	L =55 +/- 2.0 mm
RF Connector	I-PEX	---	---
Antenna Dimensions	12mm*12mm*4mm	15mm*15mm*4mm	18mm*18mm*4mm
Frequency Range	1575.42 ± 1.023 MHz.	1575.42 ± 1.023 MHz.	1575.42 ± 1.023 MHz.
GAIN	- 1.5 dBic Typ. @zenith(13.4mm*13.4mm Grand)	-0.5 dBic Typ. @zenith	1 dBic Typ.@zenith
Polaration	RHCP	RHCP	RHCP
Axialration	Max 4.0dB@zenith	Max 4.0dB@zenith	Max 4.0dB@zenith
Frequency Range	1575.42 ± 1.023 MHz	1575.42 ± 1.023 MHz	1575.42 ± 1.023 MHz
Gain	14 dB Min. 15 dB Typ.(+ 25 ℃± 5℃)	Min.13dB Typ.15dB (+ 25 ℃± 5℃)	14.5 dB Min. 15 dB Typ.(+ 25 ℃± 5℃)
Noise Figure	1.5 dB Typ. (+ 25 ℃ ± 5℃)	1.5dB Max.(+ 25℃ ± 5℃)Not inculde Saw filter	1.4 dB Typ. (+ 25 ℃ ± 5℃)
			1.8 dB Max. (+ 85 ℃)
Output Impedance	50Ω	50Ω	50Ω
Output VSWR	2.0 Max	2.0 Max	2.0 Max
Frequency Range	1575.42 ± 1.023MHz	1575.42 ± 1.023MHz	1575.42 ± 1.023MHz
Gain	At 90° 13.5 ± 4dBic	At 90° 14.5 ± 4dBic	At 90° 16 ± 4dBic
Output Impedance	50Ω	---	50Ω
Output VSWR	2.0 Max	---	2.0 Max
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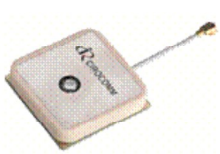
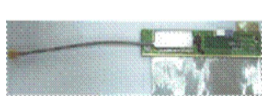
Product Picture			
Model No.	GBA-154C	GBA-E07	GHBA-A10
Operation Temperature	- 30℃ to + 80℃	- 20℃ to + 65℃	- 40℃ to + 85℃
Storage Temperature	- 40℃ to + 90℃	- 30℃ to + 75℃	- 40℃ to + 105℃
Relative Humidity	10% to 90%	40% to 95%	40% to 95%
Input Voltage	Min: 2.5 V Typ: 5.0 V Max: 5.0V	Min:2.7 V Typ: 3.0V Max:3.3V	Min:2.7 V Typ: 3.0V Max:3.3V
Current Consumption	Typ: 15 mA Max: 25mA @ 5.0V	At 3.0 V Typ: 10mA Max: 13mA	At 3.0 V Typ: 3mA Max: 5mA

RF Cable	RF Coaxial Cable,Ø1.13 ± 0.1mm, L =50 +/- 2.0 mm	RF Coaxial Cable,ψ1.13 ± 0.1mm, L =62+/- 2.0 mm	---
RF Connector	I-PEX	I-PEX	---
Antenna Dimensions	25mm*25mm*4mm.	---	10mm*10mm*4mm
Frequency Range	1575.42 ± 1.023 MHz.	1575.42 ± 1.023 MHz.	1575.42 ± 1.023 MHz.
Gain	at Zenith : + 5.0 dBic Typ. at 10° Elevation: -1.0 dBi Typ . Mounted on the 70mm*70mm ground plane	+0.5 dBi Typ.	-3 dBicTyp. @zenith
Polaration	RHCP	Linear	RHCP
Axialration	3.0dB Max. Mounted on the 70mm*70mm ground plane.	---	Max 4.0dB@zenith
Frequency Range	1575.42 ± 1.023 MHz	1575.42 ± 1.023 MHz	1575.42 ± 1.023 MHz
Gain	30±3dB (+ 25 ℃± 5℃)	24 dB Min. 25 dB Typ.(+ 25 ℃± 5℃)	13 dB Min. 15 dB Typ.(+ 25 ℃± 5℃)
Noise Figure	1.5 dB Max. (+ 25 ℃ ± 5℃)	2.5 dB Typ. (+ 25 ℃ ± 5℃)	1.4dB Typ. (+ 25 ℃ ± 5℃) 1.8 dB Max. (+ 85 ℃)
Output Impedance	50Ω	50Ω	50Ω
Output VSWR	2.0 Max	2.0 Max	---
Out Band Rejection	fo = 1575.42MHz fo ± 50 MHz 20dB MIN fo ± 100 MHz 30dB MIN	---	F0=1575.42MHz F0±30MHz 9dB min F0±50MHz 20dB min F0±100MHz 25dB min
Frequency Range	1575.42 ± 1.023MH	1575.42 ± 1.023MHz	1575.42 ± 1.023MHz
Gain	At 90° 35 ± 4dBic Mounted on the 70mm*70mm ground plane.	At 90° 25.5 ±3 dBi	At 90° 12 ± 4dBic
Output Impedance	50Ω	50Ω	50Ω
Output VSWR	2.0 Max	2.0 Max	2.0 Max
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