

GPS 10D109 99 2

- **Features**
 1. High Gain
 2. Low Noise
 3. Small size
 4. Both Magnetic Mounting and Mounting Hole built-in are available
 5. Cable length and connector can be customized
 6. Water Resistant / Weatherproof
 7. Special design antenna module is available



- **GPS Active Antenna Mechanical Specifications & Dimensions**

Item	GPS-Active-Antenna-03B	GPS-Active-Antenna-10D
Height	15.0±0.5 mm	12.5±0.5 mm
Width	45.0±0.5 mm	38.0±0.5 mm
Length	45.0±0.5 mm	38.0±0.5 mm
Cable Type	RG-174 & Others	RG-174 & Others
Cable Length	2M, 3M, 5M & Others	2M, 3M, 5M & Others
Connector Type	SMA & Others	SMA & Others
Mounting	Magnetic	Magnetic & Mounting

- **Environmental Specifications**

Item	GPS-Active-Antenna-03B	GPS-Active-Antenna-10D
Operating Humidity	10~ 95% RH	10~ 95% RH
Operating Temperature	-40 ~ +90°C	-40 ~ +90°C
Storage Temperature	-40~+90°C	-40~+90°C
Storage Humidity	10~ 95% RH	10~ 95% RH

- **Patch Specifications**

Item	GPS-Active-Antenna-03B	GPS-Active-Antenna-10D
Center Frequency	1575.42±1.023 MHz (when covered with a radome and measured by LNA ground plane)	1575.42±1.023 MHz (when covered with a radome and measured by LNA ground plane)
Bandwidth (10dB return loss)	10 MHz min	10 MHz min
Gain at Zenith	5.0 dBic typ	5.0 dBic typ
Gain at 10° elevation	- 1.0 dBic min	- 1.0 dBic min
Polarization	R.H.C.P	R.H.C.P
Axial Ratio	1.0 dB typ	1.0 dB typ

- **LNA Specification**

Item	GPS-Active-Antenna-03B	GPS-Active-Antenna-10D
Center Frequency	1575.42 ±1.023 MHz	1575.42 ±1.023 MHz
Gain	27 dB typ	27 dB min
Noise Figure	1.5 dB typ	1.5 dB typ
Output V.S.W.R	2.0 max	2.0 max

Voltage	5.0V	DC =5 ±1.0V	DC =5 ±1.0V
	3.3V	DC =3.3 ±0.6V	DC =3.3 ±0.6V
Current	5.0V	12mA max	15mA max
	3.3V	12mA max	15mA max

- **GPS Antenna Module Construction & Dimensions**

Model No	W	L	T
GPS 10D Module	25.1±0.2	25.0±0.2	8.5±0.2
GPS 03B Module	26.0±0.5	26.0±0.5	9.2±0.5

- **How to Order**

GPS 10D 1 0 9 99 2 □
1 2 3 4 5 6 7 8

1. Product Type

2. Series(10 or 03) code and radome

D: Radome # D(for 10 series)

B: Radome # B(for 03 series)

N: without radome

3. Operating Voltage

1: 3.3±0.6V

2: 5±1.0V

4. Cable Length

N: none

0: 5±0.1m

1: 3±0.06m

2: 2±0.04m

5. Cable Type

0: no cable

9: RG-174

8: 1.5DS-QEHV

6. Connector Type

code	Type	code	Type	code	Type	code	Type
00	None	91	RP-MMCX	94	MCX RA plug	97	BNC plug
89	MMCX RA plug	92	MMCX plug	95	MCX plug	98	GT5
90	RP-MMCX RA	93	SMC plug	96	SMB plug	99	SMA plug

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7. Filter Type

1: SAW

2: Dielectric

8. Suffix for Special requirements Code