

## CSGPS - 38BH240

### Electrical Specifications

#### GPS Antenna

· Frequency Range [MHz]	1575.42±1.023
· Gain [dBi]	38±2
· Polarization	RHCP
· Axial Ratio [dB]	≤3
· 3dB Beam Width [°]	110±10
· Front-to-back Ratio [dB]	> 10
· Supply Forms	Coaxial
· DC Voltage [V]	5±0.5
· DC Current [mA]	≤45
· Connector	N(F)
· Impedance [Ω]	50
· Anti-surge Performance	GB/T17626.5-2008 idt IEC 61000-4- 5:2005 (1.2/50us&8/20us: 2KV)



#### LNA Specifications

· Frequency Range [MHz]	1575.42±5
· Gain [dB]	34±2
· Flatness in Band Width [dB]	≤1(1575.42±1.023 MHz) ≤2(1575.42±5MHz)
· Noise Figure [dB]	≤2.2 @ +25°C ≤2.7 @ +80°C
· Out of Band Rejection [dBc]	> 12 (1575.42±30 MHz) > 30(1575.42±50 MHz) > 50(1575.42±100 MHz)
· VSWR	≤2.0
· 1dB the Dot of the Export [dBm]	≥0
· Anti-interference, Anti-congestion	1575.42±100 MHz inject a 0 dBm signal LNA gain compression < 2 dB

#### Environmental Specifications

· Radome Material	ASA
· Dimensions(D×H) [mm]	φ109×153
· Weight [Kg]	0.4(Body)
· Operating Temperature [°C]	-40 ~ +80
· Storage Temperature [°C]	-45 ~ +85
· Operating Humidity [%]	≤95
· Operating Wind Speed [m/s]	≤45
· Rated Wind Speed [m/s]	≤60
· Operating Environment	Outdoor
· Waterproof	Immersed in one-meter-deep water for an hour, no infiltration (before test, outside connector is sealed)