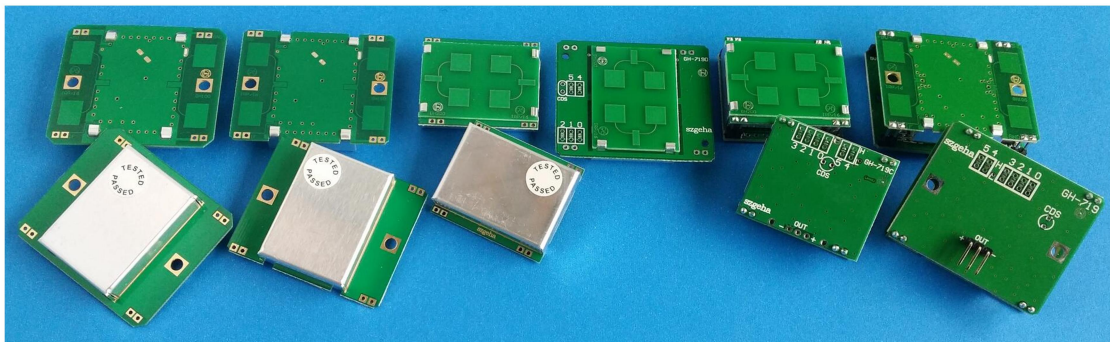


The GH100/200 microwave mobile sensor is an X-band transceiver consisting of a microwave oscillator and a pair of microstrip antennas, with a microwave frequency of 10.525GHz, used for mobile detection equipment. Combined with passive infrared sensors (PIR), it can effectively reduce the false alarm rate of target detection, and can also be used in fields such as vehicle speed measurement, security monitoring, Internet of Things, smart garage management, smart home, intelligent lighting, and pipeline fluid detection.

□Product:



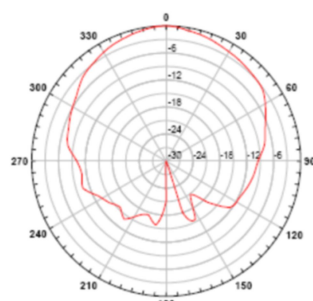
□ Features:

- Low power consumption
- Continuous wave/pulse operation mode.
- Flat structure
- Low resonance wave radiation

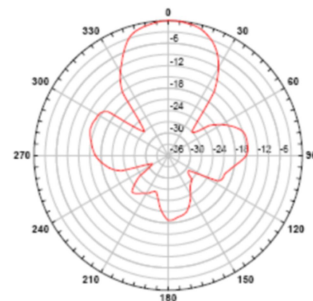
□ Applications:

- Microwave motion object detection
- Speed measurement of rail locomotives
- Light control, automatic human body sensing control
- Pipeline fluid detection
- Internet of Things, security monitoring products, and mobile object sensing detection.
- Intelligent garage management, smart home, and smart lighting.

□Antenna Beam Pattern:



positio



Tilt up and down

Main parameters:

Unless noted otherwise, the specifications are measured with +5VDC, CW operation, 12 k Ω load at ambient temperature of +25°C.

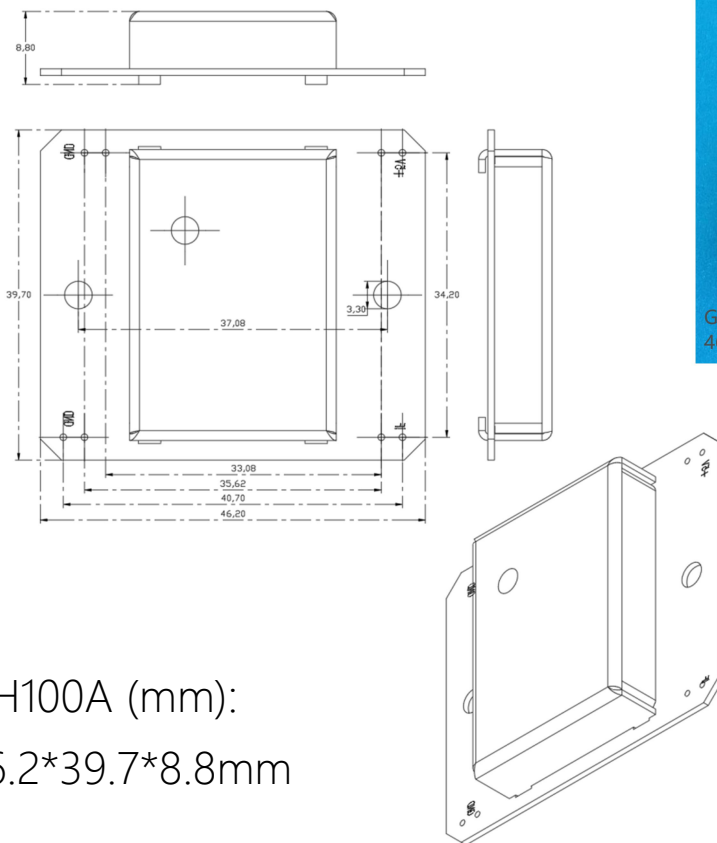
parameter	Min	Typ	Max	Units
Frequency Setting	10.520	10.525	10.530	GHz
Radiated Power(EIRP)	10	13	14	dBm
Spurious Emission			- 30	dBm
Settling Time		3	5	μ Sec
Received Signal Strength		140		V _p - p
Noise			3	V _{rms}
Antenna Beam -width (3dB) - Azimuth		80		°
Antenna Beam -width (3dB) - Elevation		40		°
Supply Voltage	4.75	5.00	5.25	VDC
Current Consumption		30	40	mA
Pulse Repetition Frequency		2		KHz
Pulse Width	10			μ Sec
Operating Temperature	- 15		55	° C
Weight		7		gm

 Note:

The radiated emissions of GH100 /GH200is designed to meet the requirements of Federal Communications Commission (FCC) rules, Part 15.

□ Outline diagram (mm):

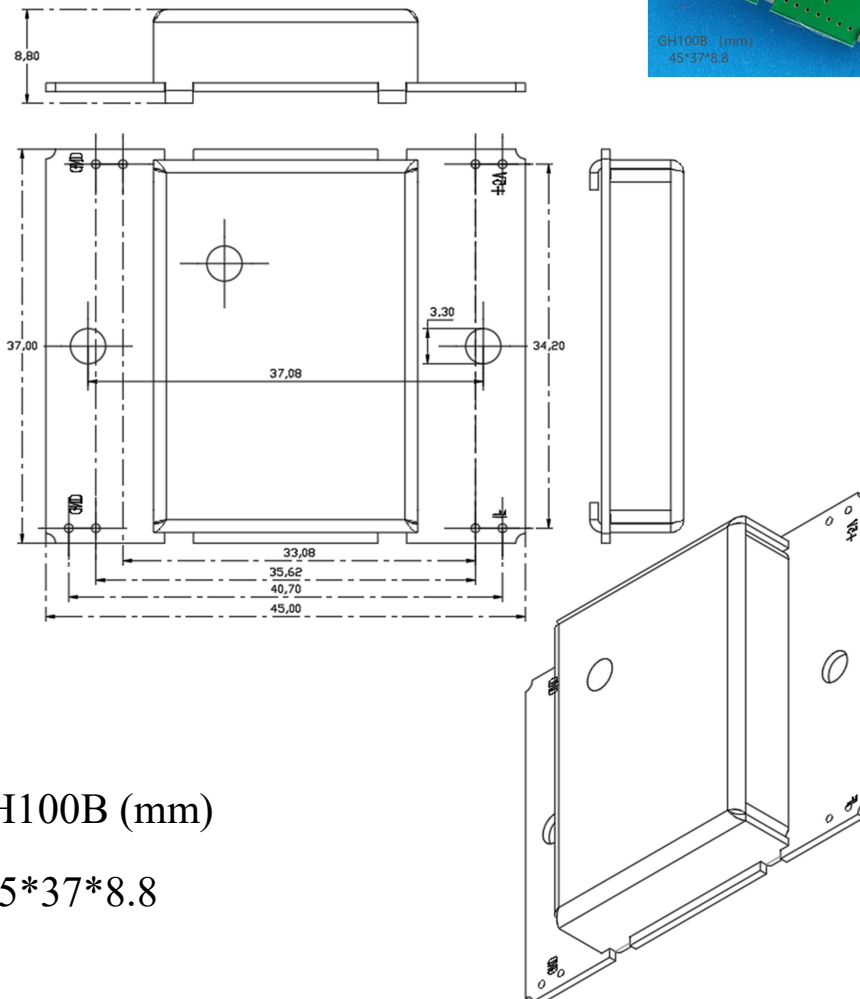
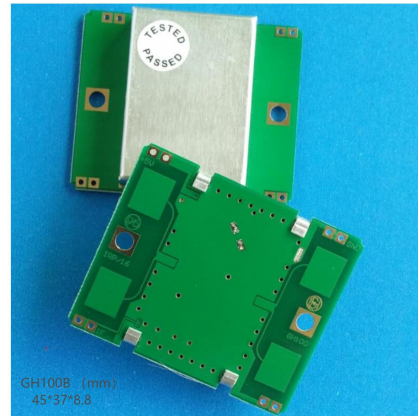
GH100A:



GH100A (mm):
46.2*39.7*8.8mm

□ Outline diagram (mm):

GH100B:

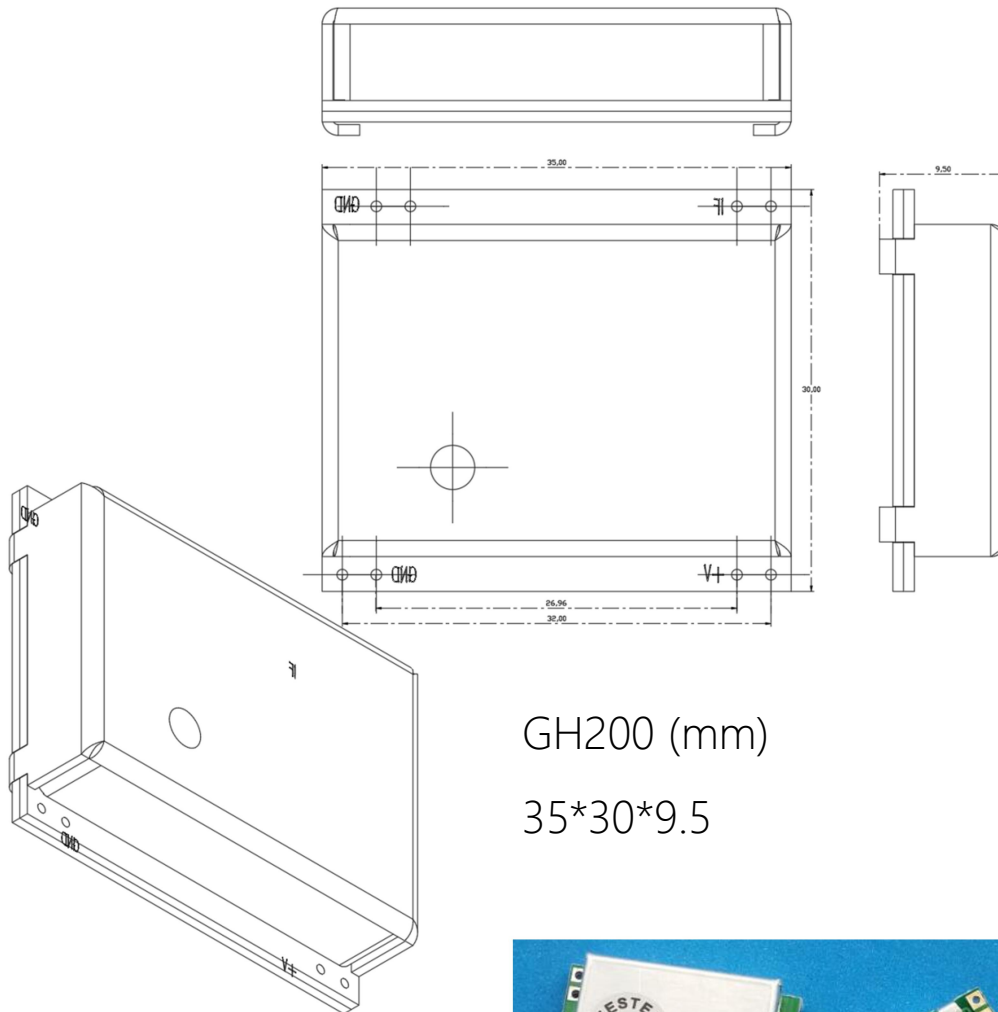


GH100B (mm)

45*37*8.8

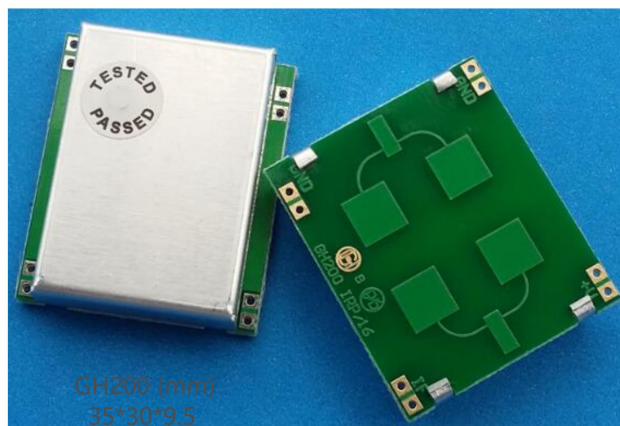
□ Outline diagram (mm):

GH200:



GH200 (mm)

35*30*9.5



GH200 (mm)
35*30*9.5