Shenzhen Kinghelm Electronics Co., Ltd

## **Product Technical Specification**

	Date: Number:	2019.06.10
	Version:	<u>V0</u>
Client Name		
Product Name L/S Internal Passive Antenna		
Product Model KH859		

Manufacturer Confirmation		Client Confirmation	
Prepared:Mr. Chen	Date:2019.06.10	Product Code:	
Audit:Mr.Xu	Date: <u>2019.06.10</u>	Audit:	Date:
Approved:Mr.Liu	Date: <u>2019.06.10</u>	Approved:	Date:

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## 1, Product Description

KH859 is a built-in antenna for receiving Beidou S-frequency satellite signals and transmitting Beidou Lband signals. The antenna unit has high gain, wide beam pattern, and good high and low elevation performance. The ceramic antenna material makes the antenna have good high and low temperature impact resistance, corrosion resistance and other properties, and can work in the field for a long time. It is widely used in shipboard, shipboard, vehicle-mounted, handheld devices and other fields.

## 2. Technical Features

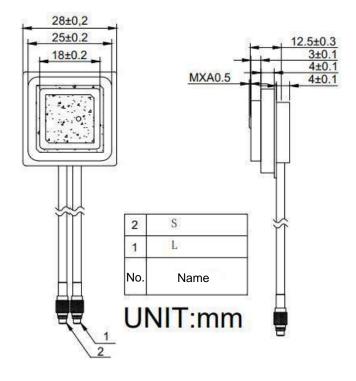
The antenna part adopts a semi-separated design to enhance the isolation of each antenna unit, reduce the impact of the antenna on the accuracy error, and stabilize the phase center; the antenna unit adopts offset feeding technology, the antenna unit has high gain, wide beam pattern, and good low elevation angle signal reception effect, ensuring that the antenna can normally receive satellites in special occasions with severe obstruction; good circular polarization axis ratio and gain bandwidth; small size, easy to integrate; can be flexibly customized according to customer needs.

Support Satellite Signals	BDS: L. S			
Output Impedance	50 Ohm			
L VSWR	≤2.0 (1615.68±4.08MHz)	L-Polarization Gain (Left-hand Circular Polarization)	<ul> <li>≥-2.5dBi(Elevation 30°)</li> <li>≥-0.5dBi(Elevation 70°)</li> <li>≥1.5dBi(Elevation 90°)</li> </ul>	
S VSWR	≤2.0 (2491.75±4.08MHz)	S-Polarization Gain (Right-hand Circular Polarization)	<ul> <li>&gt;-2.5dBi(Elevation 30°)</li> <li>≥0.5dBi(Elevation 70°)</li> <li>≥2.0dBi(Elevation 90°)</li> </ul>	
Isolation	≪-15dB(L\S)	≪-15dB(S\L)	≪-25dB(L\B1) ≪-15dB(L\S)	
Size	80*15mm (Customization Acceptable)	Weight	≤25g	
Output Interface	MCX (Customization Acceptable)	Humidity	95% Non-Condensing	
Storage Temperature	−55°C~+85°C	Working Temperature	-45℃~+75℃	

## 3. Main Technical Indicators



5、Structural Dimensions



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