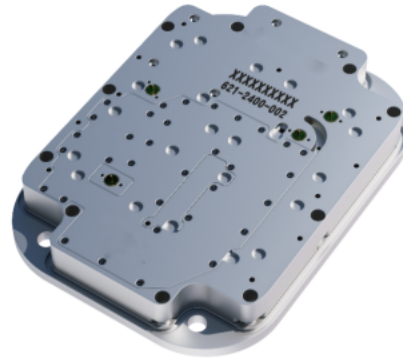




## Navigation short message RF front end



### ➤ Product features

Realize the function of sending and receiving short messages of the second and third generations of navigation, with the navigation and receiving functions of the second and third generations of Beidou, and adopt the one-line connection method. The transmitted signal of the power amplifier part is amplified and filtered to 10W by the power amplifier of the transceiver front end, and the working mode of pulse is adopted. The low-noise amplifier part completes the filtering and low-noise amplification of the S-frequency point, Beidou No. 2 frequency point, and Beidou No. 3 frequency signal.

Miniaturized, multi-mode.

### ➤ Main indicator parameter

Parameter name	Typical value
Model	621-2400-002
Some parameters of the power amplifier	
Working frequency	Navigation second generation and Navigation third generation frequency
Input and output impedance	50Ω
Gain	≥40dB
Input standing wave	≤2
Gain flatness	≤1dB
Output Power	≥39dBm



Parameter name	Typical value
Model	621-2400-002
Harmonic suppression	≥50dBc (@二次) ≥50dBc (@Secondary)
Out-of-band stray power (saturated power output)	≤-80 dBm@1561±2.04MHz; ≤-72 dBm@1575±1.023MHz; ≤-80 dBm@1207±1.023MHz; ≤-80 dBm@2491.75±4.08MHz;
Way of working	Pulse work
Open method	Voltage detection, when the power supply is +28V, the power amplifier is turned on, and the power amplifier is turned off when the power supply is 12V (low power consumption is silent when turned off)
Operating Voltage	+26V~30V
Working current	≤3A
Low noise amplifier performance indicators	
Working frequency	S-band, Navigation 2nd generation, Navigation 3rd generation frequency
Input and output impedance	50Ω
Gain	≥26.5dB
Input standing wave	≤2
Output standing wave	≤2
Gain flatness	≤1dB
Noise figure	≤2dB
Output 1dB compression point power	≥0dBm
Operating Voltage	12V
Working current	≤0.3A
Cutom instructions Frequency range and parameter indicators can be customized.	