





# RF isolation (Radio Frequency isolation)

Amplifier

#### **Product profile**

T400-LFM RF isolation amplifier is a low-power and highperformance isolation amplifier with an isolation degree up to 100dB. Additional phase noise and frequency stability are suitable for the performance of hydrogen clock and cesium clock. It has our BDSTAR TIME' s standard packaging and standard interface, and can be installed in various forms, including stacking installation, for easy integration.

#### **Product features**

- Low additional phase noise -140dBc@1Hz
- 1-way to 5-way, 100dB isolation
- Design for 10 MHz frequency
- +12~+15VDC power supply

#### **Application area**



Radar communication system



Frequency standard comparison measurement system



Wireless base station



Frequency

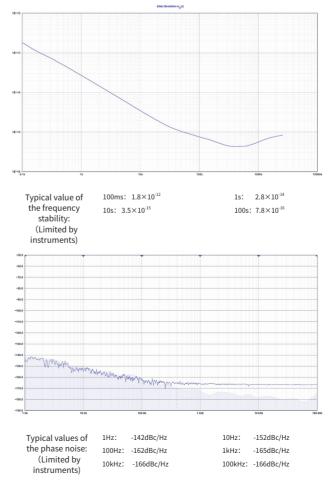
source

Controlled radar array

Satellite

communication

Typical curve



Beijing BDSTAR TIME Technology Co., LTD

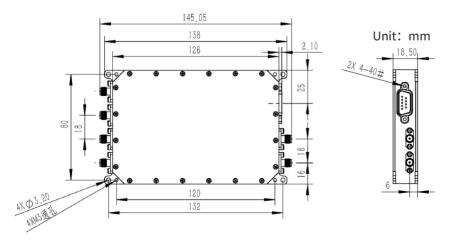
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#### **Technical Parameters**

Test Item		Technical Indicators
Frequency rate		10MHz
Gain		0±2dB
Input power	1-way	0-15dBm
Degree of isolation		100dB
Additional frequency stability	1s	$\leq$ 3×10 <sup>-14</sup>
	1000s	$\leq 5 \times 10^{-16}$
Additional phase noise	1Hz	≤ -140dBc/Hz
	10Hz	≤ -150dBc/Hz
	100Hz	≤ -155dBc/Hz
	1kHz	≤ -165dBc/Hz
	10kHz	≤ -165dBc/Hz
Working temperature		-20°C ~+70°C
Storage temperature		-40°C ~+85°C
Power supply	±4%	+12~+15V
Rate of work		≤ 3W
External dimension	Body size	126mm×86mm×19mm
Weight		< 300g

### **External Dimension**



## Interface Definition (DSUB9, needle) :

PIN 1: The Ground PIN 6: Power supply +12~+15V Other: Internal testing. No wiring.

#### -T400-LFM