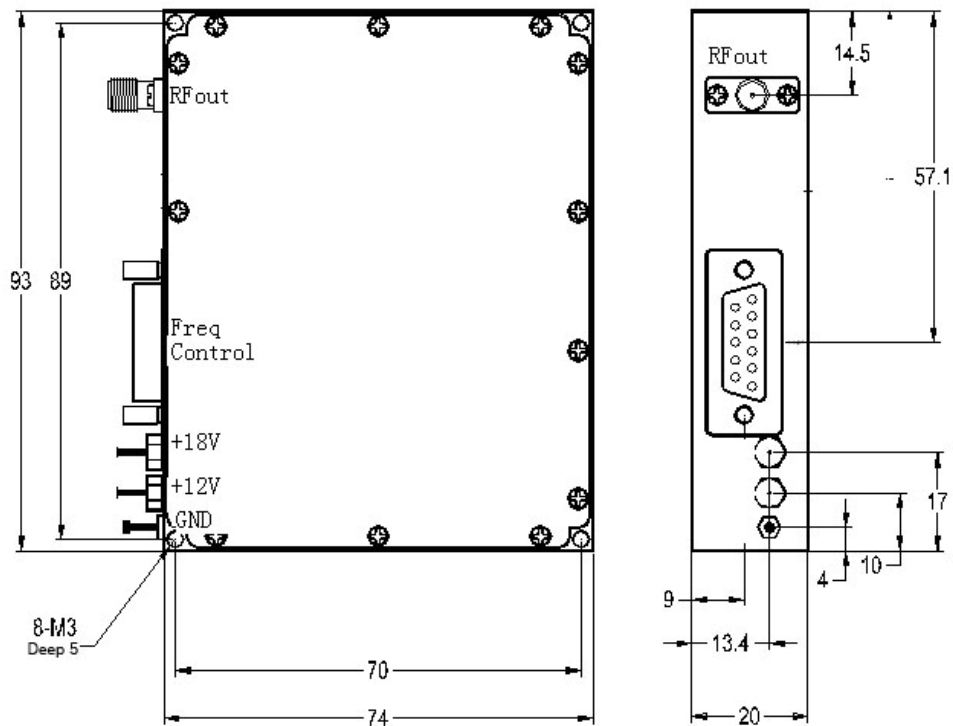


1. Technical Specifications

Frequency Range	8 –12GHz
SSB Phase Noise	-80dBc @ 1KHz
Fout= 8GHz	-82dBc @ 10KHz
Tuning Step Size	1MHz
Power Level	+10dBm (min)
Power Variation (Freq. & temp.)	±1.5dB
Harmonics	-30dBc
Spurious	-60dBc
Output Impedance	50 ohm
Temperature Stability	±2X10 ⁻⁶ (-40~+60°C)
Tuning Format (Freq. Control)	3.3V-TTL 12Bits parallel
Phase Lock Indicator	3.3V-TTL High LOCK LOW UNLOCK
Volts	+12V/450mA 18V/10mA(MAX)
Humidity	10-90%
Altitude	10Km
Weight	400g
Dimensions	See outline drawing

2. Outline Drawing (Size: mm)



3. Functions of pin connectors: 15-PIN Mini-D-SUB

Pin	Function
1	Frequency code F0
2	Frequency code F1
3	Frequency code F2
4	Frequency code F3
5	Frequency code F4
6	Frequency code F5
7	Frequency code F6
8	Frequency code F7
9	Frequency code F8
10	Frequency code F9
11	Frequency code F10
12	Frequency code F11
13	Lock Display
14	GND
15	GND



4. Frequency Control Truth Table

Frequency Code (F11-F0)			Frequency
Dec	Hex	Binary	MHz
0	#0000H	000000000000	8000
1	#0001H	000000000001	8001
2	#0002H	000000000010	8002

2000	#07D0H	011111010000	10000
2001	#07D1H	011111010001	10001
2002	#07D2H	011111010010	10002

3998	#0F9EH	111110011110	12998
3999	#0F9FH	111110011111	12999
4000	#0FA0H	111110100000	12000

5. Notes

1. Wrong connection of power supply is forbidden; otherwise the internal circuit would be damaged!
2. When the frequency synthesizer operates a long time, it must be with cool plate.