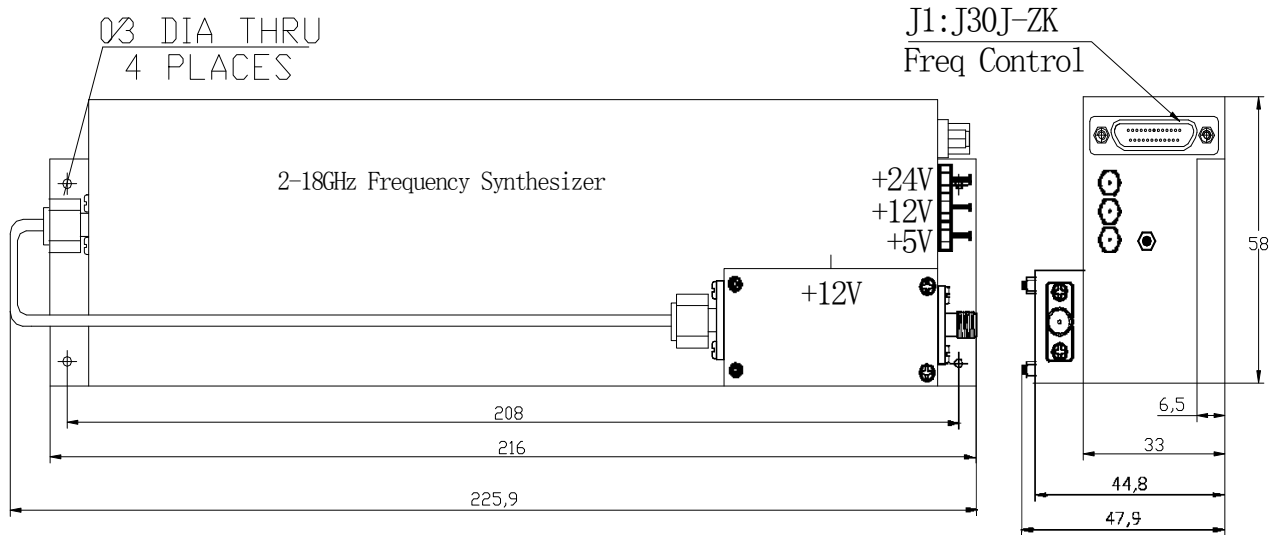


1. Electrical Specifications

Frequency Range	2 –18GHz
SSB Phase Noise	-82dBc @ 1KHz -85dBc @ 10KHz -90dBc @ 1MHz -120dBc @ 10MHz
Tuning Step Size	10MHz
Power Level	+13dBm (min)
Power Variation (Freq. & Temp.)	±3dB
Harmonics	-10dBc
Spurious	-60dBc
Switching Speed	100uS
Output Impedance	50 ohm
Temperature Stability	±1X10 ⁻⁷ (-40~+60°C)
Aging	±5X10 ⁻⁷ (MAX)
Tuning Format (Freq. Control)	3.3V-TTL 12Bits parallel
Phase Lock Indicator	3.3V-TTL High LOCK LOW UNLOCK
Power Supply	+12V/1.3A +5V/1.5A +24V/0.2A (MAX)
Warm-Up Surge Current	500mA
Operational Case Temperature	+50°C
Humidity	10-90%
Altitude	10Km
Weight	1500g
Dimensions	See outline drawing

2. Outline Drawing (Size: mm)



3. Functions of pin connectors: J30J-25ZK

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
13-16	Blank(NC)
17	Phase Lock Indicator
18-24	blank(NC)
25	GND



4. Frequency Control Truth Table

Frequency Code (F11-F0)			Frequency
Dec	Hex	Binary	MHz
0	#0000H	000000000000	2000
1	#0001H	000000000001	2010
2	#0002H	000000000010	2020
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1000	#03E8H	001111101000	12010
1001	#03E9H	001111101001	12020
1002	#03EAH	001111101010	12030
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1598	#063EH	011000111110	17980
1599	#063FH	011000111111	17990
1600	#0640H	011001000000	18000

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.