

# OC1420

## Features

- Low Aging rate
- AT Cut or SC Cut
- Compact size
- Environmentally friendly product

## Application

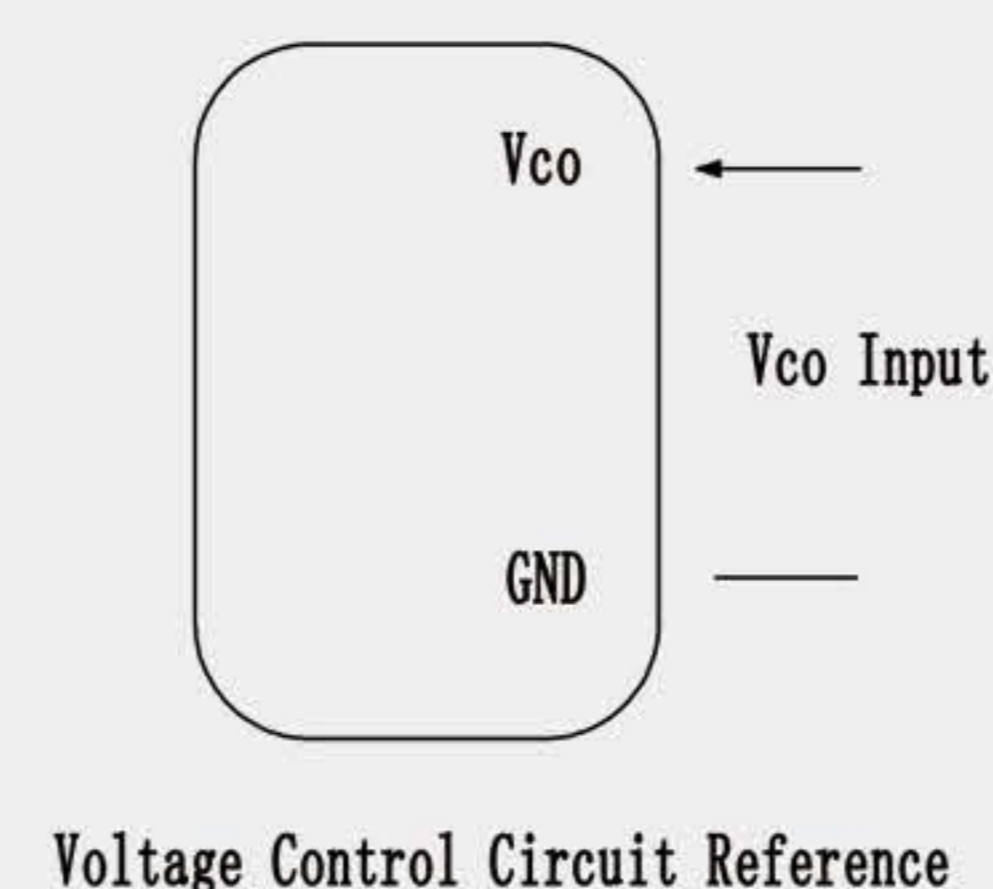
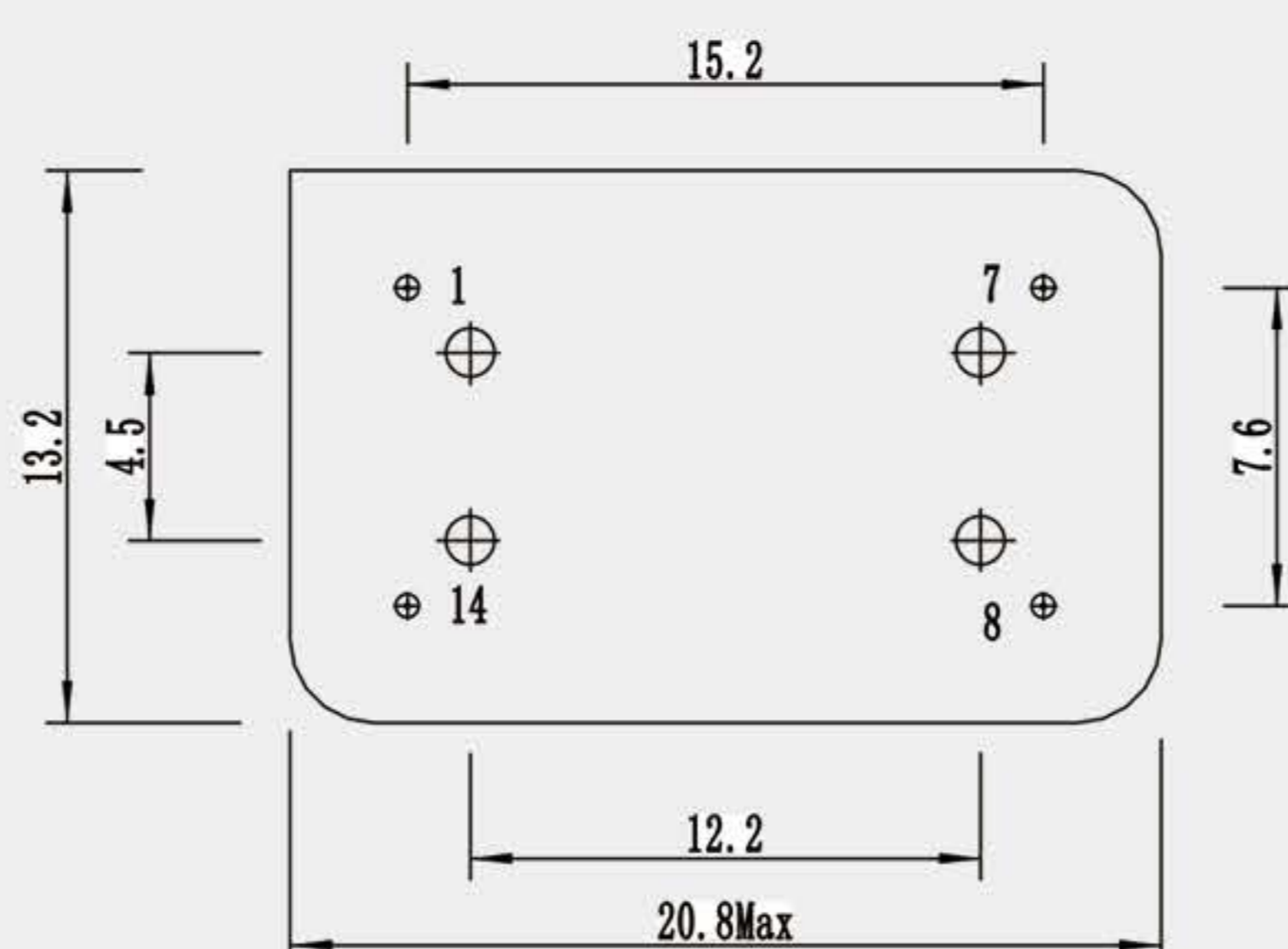
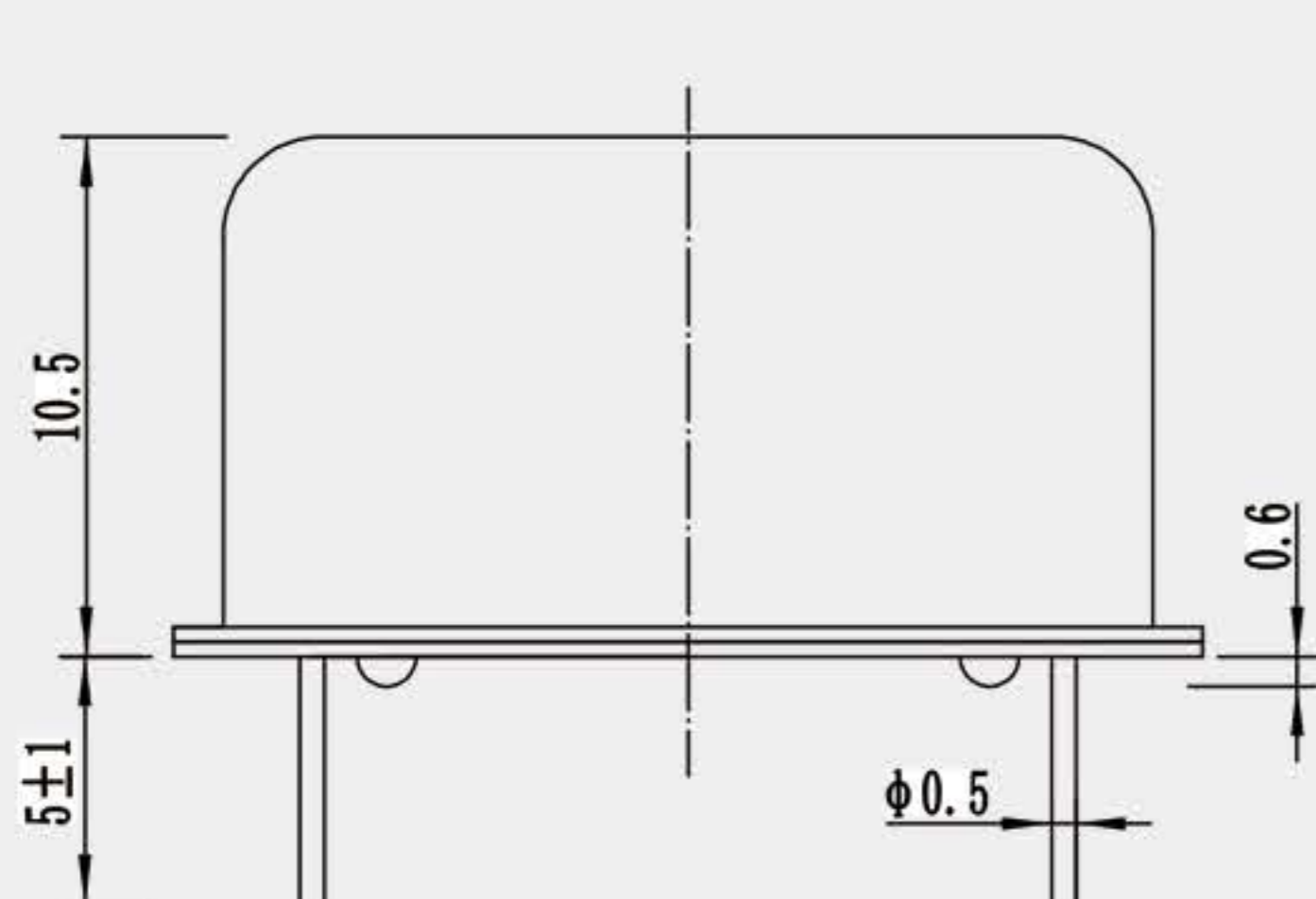
- Communication Network
- Clock Synchronization
- Signal Acquisition and Monitoring
- Military Equipment



## Electrical Specification

Model		OC1420			
Frequency Range		1.000MHz~100.000MHz			
Nominal Frequency (MHz)		10 16.384 20 25 50 100			
Frequency Tolerance		<math>\pm 0.2\text{PPM}</math> (Relative center control voltage) at 25° C			
Supply Voltage (V)		A:+3.3VDC $\pm 10\%$ ; B:+5.0VDC $\pm 10\%$ ; C:+12.0VDC $\pm 10\%$			
Supply	Warm-up	2W Max.			
Consumption	Steady State	1W Max. (at 25° C)			
Output Waveform		A: TTL 15pF B: TTL 50pF	C: CMOS 15pF D: CMOS 50pF	G: Sine Wave	
Output Symmetry		45%~55%			
Low Jitter					
Frequency	Input Voltage	<math>\pm 2 \times 10^{-8}</math>(VDD $\pm 5\%$ ).			
Stability	Load	<math>\pm 2 \times 10^{-8}</math> Max. (Load $\pm 5\%$ )			
relative to	Start-Up Time	<math>< 7\text{min}</math>(Fluctuation Not Exceeding $\pm 10^{-8} \times F_0$ , $F_0$ Is Frequency After One Hour Work).			
Rise time/Fall time		10nS Max.			
Output Level	"0"	0.4V Max.	10%VDD	>0dBm//50 $\Omega$	
	"1"	2.4V Min	90%VDD		
Storage Temperature		-40° C~+100° C			
Frequency Aging (After 30 days at +25°C)		A: $\pm 5 \times 10^{-9}/\text{Day}$ / $\pm 1 \times 10^{-6}/\text{Year}$ B: $\pm 5 \times 10^{-9}/\text{Day}$ / $\pm 5 \times 10^{-7}/\text{Year}$			
Phase noise	10Hz	100Hz	1KHz	10KHz	
	-100dBc/Hz	-120dBc/Hz	-140dBc/Hz	-150dBc/Hz	
Slope / Linearity		Just			

## Drawing



Pin	Functionality
#1	Control voltage / suspension
#7	Ground
#8	Output
#14	Power