

OC3627

Features

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

Application

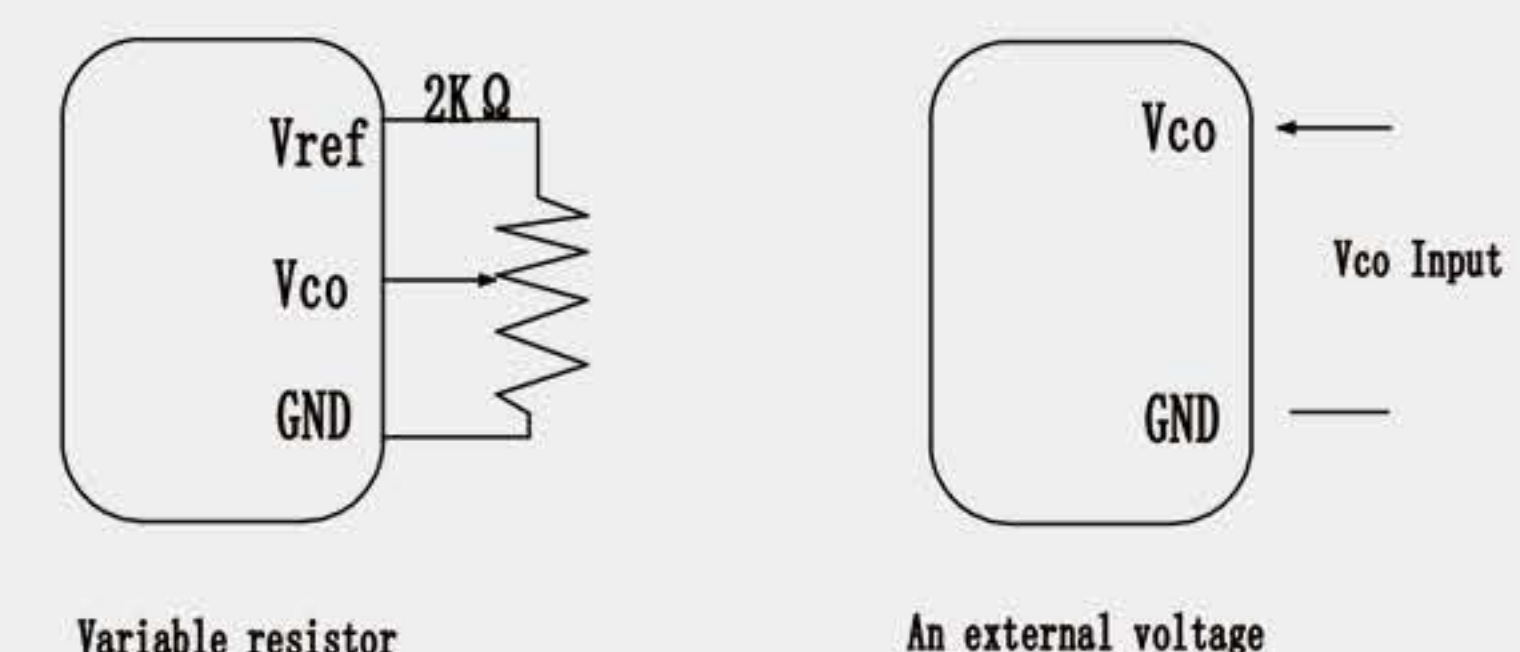
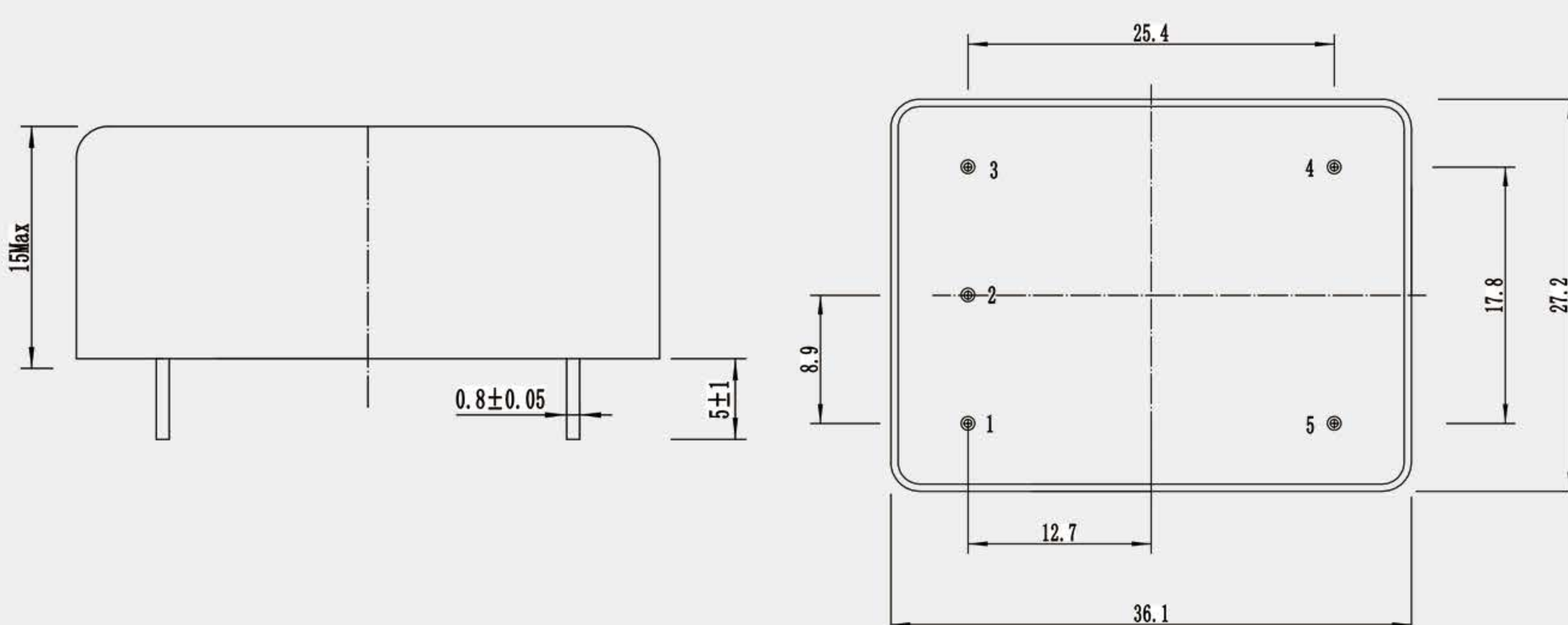
- Communication Network
- Clock Synchronization
- Signal Acquisition and Monitoring
- Rf Microwave
- Military Equipment



Electrical Specification

Model		OC3627		
Frequency Range		1.000MHz~210.000MHz		
Nominal Frequency (MHz)		4.096	5	8.192 10 16.384 20
Frequency Tolerance		$\pm 0.05\text{PPM}$ (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	3.6W Max.		
Consumption	Steady State	1.5W Max. (at 25° C)		
Output Waveform		A: TTL 15pF	C: CMOS 15pF	G: Sine Wave
Output Symmetry		45%~55%		
Low Jitter				
Frequency Stability relative to	Temperature			
	Input Voltage	$\pm 1 \times 10^{-9}$(VDD $\pm 5\%$)		
	Load	$\pm 1 \times 10^{-9}$Max. (Load $\pm 5\%$)		
	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//50Ω
	"1"	2.4V Min	90%VDD	
Storage Temperature		-40° C~+100° C		
Frequency Aging (After 30 days at +25°C)		B: $\pm 5 \times 10^{-9}/\text{Day}$ / $\pm 5 \times 10^{-7}/\text{Year}$ C: $\pm 1 \times 10^{-9}/\text{Day}$ / $\pm 1 \times 10^{-7}/\text{Year}$		D: $\pm 5 \times 10^{-10}/\text{Day}$ / $\pm 5 \times 10^{-8}/\text{Year}$
Phase noise		100Hz	1KHz	10KHz
		-120dBc/Hz	-145dBc/Hz	-155dBc/Hz
Internal Reference Voltage		4V ± 0.08 (VDD=5V)		8V ± 0.16 (VDD=12V)
Slope / Linearity		Just/ $\pm 10\%$		

Drawing



Pin	Functionality
#1	Control vge/suspension
#2	Reference voltage/suspension
#3	Power
#4	Output
#5	Ground