

Programmable Crystal Oscillator

VSO691ER



Applications

Consumer

Features

One-time programmable

Package Size: 5.0x5.2x2.7 (0.50mm)

Application: 1~200MHz

Specifications (规格参数)

CMOS	
2.5V	3.3V
1MHz~200MHz	1MHz~200MHz
2.25V~2.75V	2.97V~3.63V
400nA	
±30ppm, ±50ppm or specify	
1.5ns	
-40~+85°C, -40~+125°C, or specify	
VOH=90%VDD, VOL=10%VDD	
5ns-Max	
7ns-Max	
Phase Jitter: 1.2KHz~20MHz (相位抖动)	1.1ps-Max, 1.1ps-Max, 1.1ps-Max
Supply Current	See Below
Frequency Aging (at 25°C)	±3 ppm/year-Max

Item / Type	
Supply Voltage 电源电压	1.8V
Frequency Range 频率范围	1MHz~125MHz
Supply Voltage Variation (VDD)10% 电压范围	1.62V~1.98V
Standby Current 待机电流	
Frequency Tolerance 频率偏差	
Output Load 输出负载	
Operating Temperature Range 工作温度	
Storage Temperature Range 储存温度	
Voltage VOH (Min-)/VOL	
Output Voltage	
Duty Cycle	
Rise Time	
Standby	

Current Consumption (消耗电流)

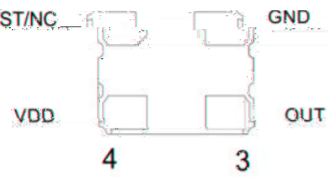
Supply Voltage (V)	Power Dissipation				
	1.000-20.000MHz	21.000-50.000MHz	55.000-110.000MHz	111.000-166.000MHz	167.000-200.000MHz
20mA Max	1.8V	18mA Max	19mA Max	20mA Max	20mA Max
25mA Max	2.5V	21mA Max	22mA Max	23mA Max	24mA Max
27mA Max	3.3V	24mA Max	24mA Max	25mA Max	26mA Max

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Pin Dimension (脚位尺寸)

Pin	Symbol	Functionality	Pin Assignments
1	OE/ST/NC	Output Enable H: specified frequency output L: output is low. Specified frequency output stop.	1
2	GND	Standby H: specified frequency output L: output is low. Device goes to sleep mode. Supply	2
3	OUT	No-Connect Pin 1 = VDD or Pin 1 is Open - Specified frequency output. Pin 1 has no function.	3
4	VDD	Power Electrical ground	4



Land Pattern (焊盘尺寸及推荐焊盘)

Dimensions and Recommended



VSO601TR



Test Circuit (测试电路)

