

PROGRAMMABLE CRYSTAL OSCILLATOR

YSO171PS Spread Spectrum

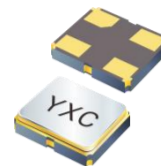


Applications

- Computers or Servers
- Controller or PLC
- Communication

Features

- 2 Kinds of Spread Type
- Multiple Spread Width Options
- EMI Reduction
- Package Size: 2.5*2.0, 3.2*2.5mm
- Standard Frequency: 1 ~ 200MHz



Specifications (规格参数)

Item	Specifications	
Nominal Frequency Range 额定频率范围	2.5*2.0	3.2*2.5
	1MHz ~ 200MHz	
Supply Voltage Variation (VDD)10% 电压范围	1.8V、2.5V、3.3V ±10%	
Frequency Tolerance 频率偏差	±25ppm, ±50ppm, or specify	
Operating Temperature 工作温度	-40 ~+ 85°C, or specify	
Storage Temperature 储存温度	-40 ~+ 125°C	
Output Type 输出方式	CMOS	
Output Load 输出负载	15pF	
Rise Time/Fall Time 上升沿/下降沿	3ns Max (f0>40MHz) 6ns Max (f0≤40MHz)	5ns Max (10% ↔ 90% waveform)
Duty Cycle 占空比	45 ~ 55%	
Start-up Time 启动时间	3.0ms Typ	
Frequency Aging 老化 (at 25°C)	±5 ppm / year Max	
Current Consumption 消耗功率	3.4 mA Min 8.3 mA Max	20mA Max (3 ~ 100MHZ) 30mA Max (101 ~ 200MHZ)
Enable Function 使能功能	70% (Min.) of VDD to Enable Output	
Disable Function 禁用功能	30% (Max.) of VDD to Disable Output	
Spread Type 展频方式	Center Spread or Down Spread	
Center Spread “ C ”	± 0.125 % (C0.125) to ± 2.0 % (C2.0) in ± 0.125 % steps	
Down Spread “ D ”	- 0.25 % (D0.25) to - 4.0 % (D4.0) in 0.25 % steps	

Pin Dimension (脚位尺寸)

Pin	Name	Function	
1	OE	Output enable	High: Specified frequency output from OUT pin Low: Out pin is low (weak pull down) , only output driver is disabled
2	GND	Ground	
3	OUT	Clock output	
4	VDD	Power supply	

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Dimensions and Recommended Land Pattern (外观尺寸及推荐焊盘)

Dimensions (Unit: mm)			
2.5*2.0 Top View Side View Bottom View Recommended soldering Pattern			
3.2*2.5 Top View Side View Bottom View Recommended soldering Pattern			