

CLOCK OSCILLATOR

钟控振荡器

FTO531S TYPE

Low Height

High Speed CMOS

Notebook/PDA

CCD Applications

DIMENSIONS(Unit:mm) 外形尺寸

< PAD LAYOUT >

Pin No.	Function
1	Tri-state or no connect
2	GND
3	Frequency output
4	VCC

PARAMETERS 技术参数

ELECTRICAL SPECIFICATIONS			
Frequency Range 频率范围	0.700MHz ~ 66.666MHz		
Frequency Stability 频率稳定度	±25ppm	±50ppm	±100ppm (Standard)
	Inclusive of operating temperature range		
Operating Temperature Range 工作温度	-10℃~+70℃		
Storage Temperature Range 储存温度	-40℃~+85℃		
Input Voltage 输入电压	+5Vdc ± 0.5V		+3.3Vdc ± 0.3V
Input Current 输入电流	60mA max		35mA max
0/1 Level 0/1 电平	+0.5V max/+4.5V min		+0.4V max/+3.0V min
Symmetry 占空比	60/40% or 40/60% (Typical)		
Rise & Fall time 上升时间/ 下降时间	10nS max(1.000MHz ~ 9.999MHz) 5nS max(10.000MHz ~ 125.000MHz)		
Start up time 起振时间	15mS max(1.000MHz ~ 9.999MHz) 10mS max(10.000MHz ~ 125.000MHz)		
Fan out 输出负载	1TTL ~ 10TTL or 15pF ~ 10TTL		
Aging (at 25 ℃) 年老化率	± 5ppm / Year max		
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS			
Shock 抗冲击性能	FIL-STD-883C, Method 2002, Condition B		
Vibration 抗振性能	FIL-STD-883C, Method 2007, Condition A		
Solderability 焊接性能	FIL-STD-883C, Method 2003		
Seal Integrity 密封性能	FIL-STD-883C, Method 1014, Condition C & A2		
Marking 标记	FIL-STD-202F, Method 215		

PART NUMBER GUIDE 部件号示例

F

VO

25

A

C

5

SM5G

Fronter

Oscillator

Frequency

Frequency Stability
A=25ppm
B=50ppm
C=100ppm
D=Customize

Temperature Range
A=0℃~+70℃
B=-20℃~+70℃
C=-40℃~+85℃
D=Customize

Input Voltage
3=3.3 Volt / 5=5.0 Volt

SMD5032

S-SEAM TYPE

Specifications subjects to change without notice & if you need other specifications, please contact our factory.

TEST CIRCUIT 测试原理图

NOTES :

1.CL...15pF INCLUDES ALL STRAY AND SCOPE/FREQ.CTR. LOADING CAPACITANCE

2.ALL DIODES In916 OR EQUIVALENT

WAVE FORM 波形图

