



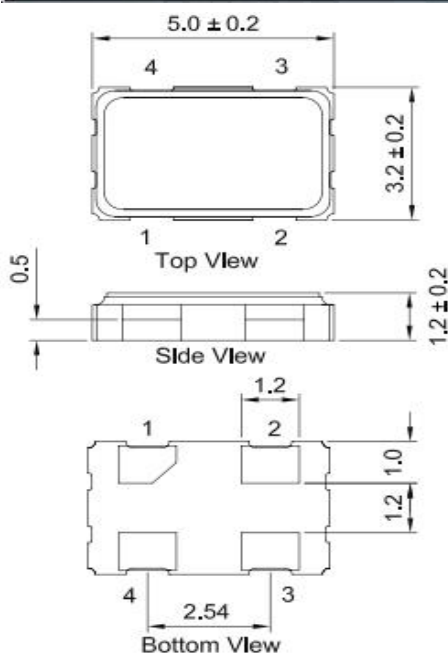
Features

- Small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to wide frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- Supply voltage range : 1.8 V ~ 5.0 V.
- High stability, low jitter, low power consumption.
- Main application : wireless communication set, PDA, and

Crystals specifications

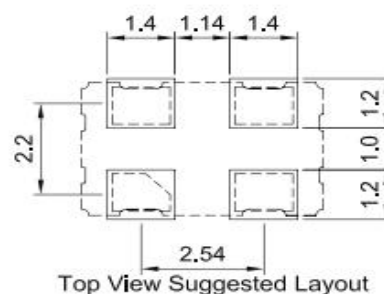
ITEMS (项目)		PARAMETER (规格说明) 053		
Output Type(输出模式)		CMOS		
Output Load(输出负载条件)		15 pF , 30 pF		
Oscillation Mode(振荡模式)		Fundamental / 3rd Overtone		
Supply Voltage(电源电压)		1.8±10%V ; 2.5±10%V ; 2.8±10%V ; 3.3±10%V; 5±10%V;		
Frequency Range(输出频率范围)		1 ~ 150 MHz		
Frequency Stability		± 20 ppm , ± 25 ppm , ± 30 ppm , ± 50 ppm		
Operating Temperature Range(工作温度)		- 10 ~ + 70 °C , - 40 ~ + 85 °C		
Storage Temperature Range(储存温度)		- 55 ~ + 125 °C		
Oscillating voltage(振荡电压)	Voltage Vol (Max.)	10 % VCC Max.		
	Voltage Voh (Min.)	90 % VCC Min		
Rise (Tr) / Fall (Tf) Time: 上升/下降时间		8 ns Max.		
Current Consumption (功耗)	1-75 MHz	5 mA Max.	10 mA Max.	20 mA Max.
	75-150 MHz	15 mA Max.	20 mA Max.	NA
Symmetry(占空比)		40 ~ 60 %		
Start-up Time(振荡启动时间)		5 ms Max.		
Phase Jitter (12 KHz ~ 20 MHz)		1 ps Max.		
Aging (at 25 °C)频率老化		± 3 ppm / year Max.		
Packing Unit(包装单位)		1,000pcs/Reel		

Dimensions



PAD FUNCTION:

- 1: ENABLE CONTROL
- 2: GND
- 3: OUT
- 4: VDD



Units: mm