

ASAIR

Crystal Oscillator
SPXO 3.2x2.5

Part Frequency: 19.200MHz

Part Code: MRASSP32S4-019.20000-BC14D0

1. Product Features

- Small size, ultra-thin, SMD leadless
- Wide operating temperature range, high stability and reliability

2. Product Parameters

Parameter	Min.	Typical	Max.	Unit	Condition
Output Frequency	19.200			MHz	/
Operating Temp.	-40	/	+85	°C	Constant Temp. High & Low Temp. Equipment
Storage Temp.	-55	/	+125	°C	/

Remark: The frequency counter can use the same test equipment as HP53132.

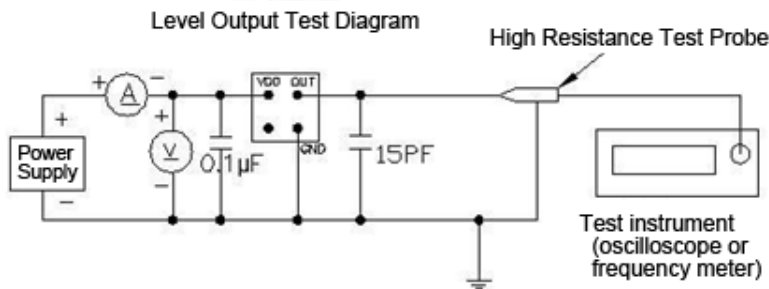
When measuring the frequency tolerance characteristic value, the test should be carried out at a stable ambient temperature of $25\pm 2^{\circ}\text{C}$.

3. Frequency & Electrical Properties

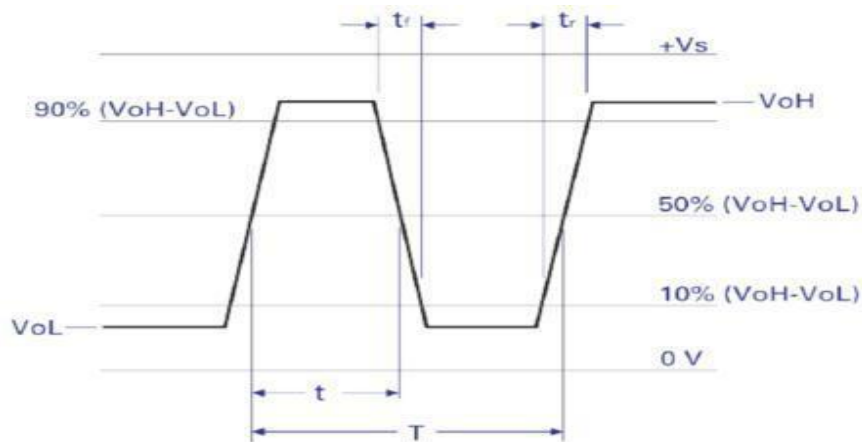
S/N	Parameter		Symbol	Min.	Typical	Max.	Unit	Condition
1	Output Frequency		F0	19.200			MHz	/
2	Input	Supply Voltage	Vdd	1.71	1.8	1.89	V	Also can apply 3.3V、5.0V
3	Output	Level Output Voltage	Vol max, Voh min	CMOS			/	/
		Load	RL	/	15	/	pF	/
		1 Level Output Voltage	Voh	1.62	/		V	/
		0 Level Output Voltage	Vol	/	/	0.18	V	/
		Rise & Fall Time	Tr, Tf	/	/	10	ns	/
		Symmetry Min. to Max.	DT	45	/	55	%	/

4	Frequency Stability	Frequency Stability	$\Delta f/f$	-20	/	20	ppm	/
		Frequency Stability Over Temp.	$\Delta f/f$	-30	/	30	ppm	/
		Aging	Fag	-3	/	3	ppm	/
		Start-up Time	ST	/	/	10	ms	/
5	Tri-state Function	Input Voltage, Output Enable	loe	#1pin			/	/
		Enable High Voltage	Vhi	1.26	/	/	V	/
		Disable Low Voltage	Vlo	/	/	0.54	V	/

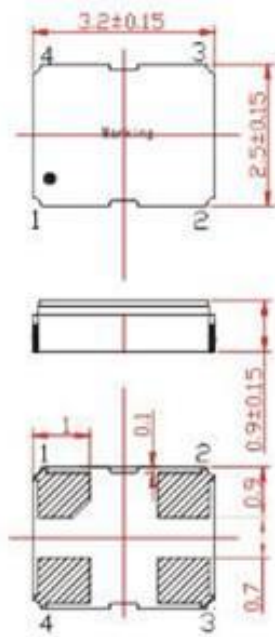
4. Test Circuit Diagram



5. Level Output Voltage



6. Outer Size



Pin Function Definition		
Pin	Function	Definition
#1	E/D	NC or Tri-state
#2	GND	Ground
#3	Output	Output
#4	Vdd	Power Supply

Recommended Solder Pad

