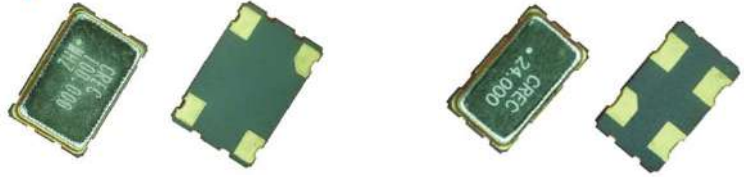


## XO 系列晶体振荡器 (Crystal Oscillator)

### 产品特点 Feature

- ◆ 高稳定性,低相噪
- ◆ 小尺寸
- ◆ 应用: 通信,GPS WiMAX,WLAN 手机



### 技术指标 Specifications

Type	SMD2016	SMD2520	SMD3225	SMD5032	SMD7050	Unit
Parameter						
Frequency Range (MHz)	1~50	1~50	0.032768~125	0.0137~156.25	0.0137~156.25	MHz
Supply Voltage (V)	1.8/2.5/3.3	1.8/2.5/3.3	1.8/2.5/3.3	1.8/2.5/3.3	1.8/2.5/3.3	V
Supply Current						
13.7KHz≤F0≤93KHz	-	-	3	1.0	1.0	mA
0.3125M≤F0≤50M (Fund)	15	15	15	10	10	mA
40MHz≤F0<75MHz	-	-	15	20	20	mA
75MHz≤F0<133MHz	-	-	25	35	35	mA
133MHz≤F0	-	-	-	45	45	mA
Dut Cycle	45~55	45~55	45~55	45~55	45~55	%
Output Level (CMOS)						
Output High (Logic "1")	90%VDD	90%VDD	90%VDD	90%VDD	90%VDD	V
Output High (Logic "0")	10%VDD	10%VDD	10%VDD	10%VDD	10%VDD	V
Transition Time: Rise/Fall Time						
13.7KHz≤F0≤70KHz	-	-	50	50	50	nSec
0.3125MHz≤F0<20MHz	5	5	5	5	5	nSec
20MHz≤F0<50MHz	4	4	4	3	3	nSec
40MHz≤F0<100MHz	-	-	-	3	3	nSec
100MHz≤F0	-	-	-	5	5	nSec
Start Time	2	2	2	5	5	mSec
Output Drive Capability (CL)	15	15	15	15	15	pF
Tri-State (Input to Pin1)						
Enable (High voltage or Floating)	0.7VDD	0.7VDD	0.7VDD	0.7VDD	0.7VDD	V
Disable (Low voltage or GND)	0.3VDD	0.3VDD	0.3VDD	0.3VDD	0.3VDD	V
Absolute Clock Period Jitter	40	40	40	40	40	pSec
RMS Phase Jitter (12KHz~20MHz)	1	1	1	1	1	pSec
Standby Current	10	15	15	10	10	uA
Aging (25°C First Year)	±3	±3	±3	±3	±3	ppm
Storage Temperature Range	-55~125	-55~125	-55~125	-55~125	-55~125	°C
Packing	3000/Reel	3000/Reel	3000/Reel	1000/Reel	1000/Reel	

### FREQ. STABILITY vs. TEMP. RANGE

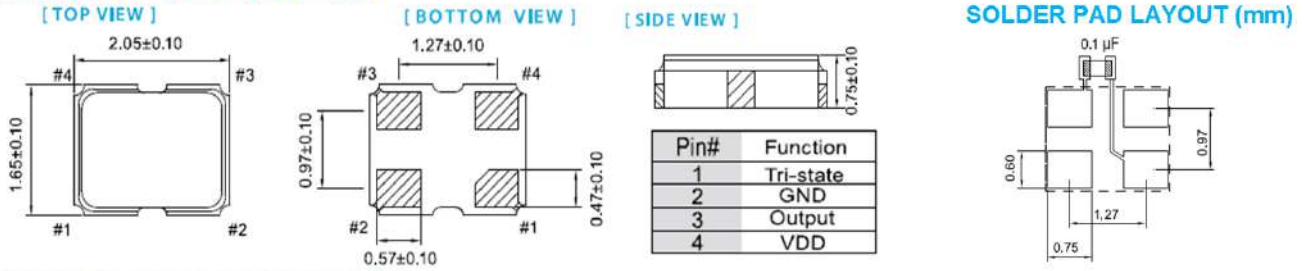
Temp(°C) \ ppm	±20	±25	±50
0~55	○	○	○
-20~70	△	○	○
-40~85	X	△	○

Note: ○:Available, △:Conditional, X:Not available

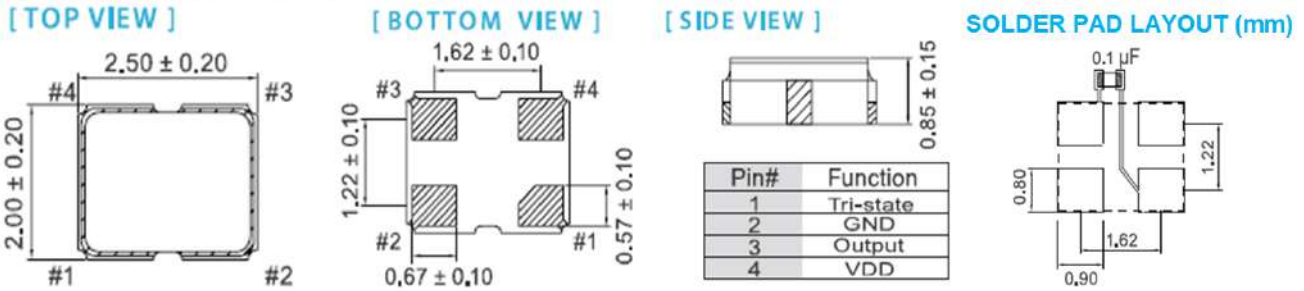
## ❖ XO 系列晶体振荡器( Crystal Oscillator)

### 产品尺寸

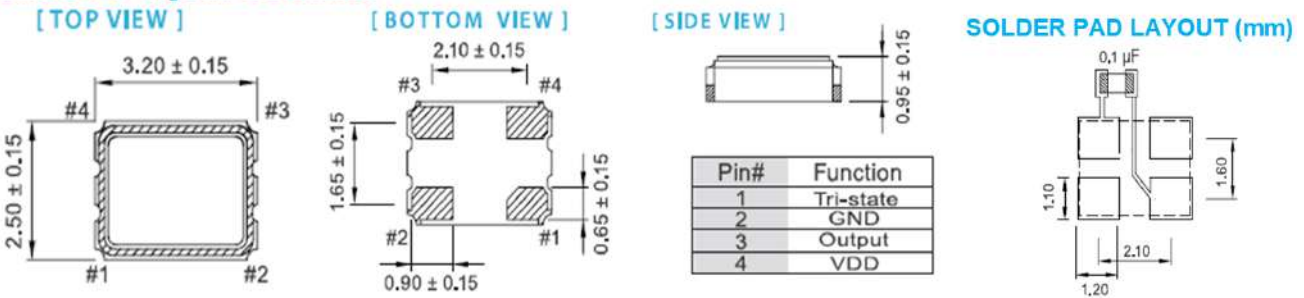
#### 1.SMD2016 Crvstal Oscillator



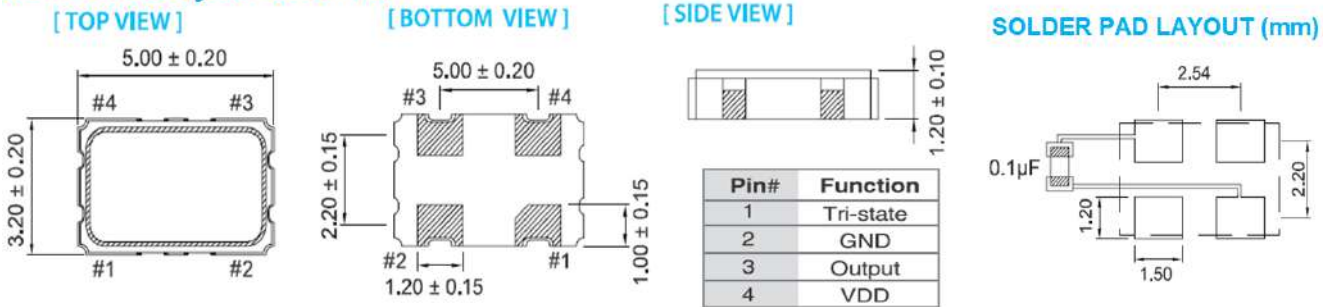
#### 2.SMD2520 Crystal Oscillator



#### 3.SMD3225 Crystal Oscillator



#### 4.SMD5032 Crystal Oscillator



#### 5.SMD7050 Crystal Oscillator

