



SMD7050 Crystal Oscillator



FEATURES

- Tri-State Enable/Disable
- TTL/HCMOS Compatible
- Tape And Reel
- IR Re-flow
- 5.0V、3.3V、2.8V and 1.8V option

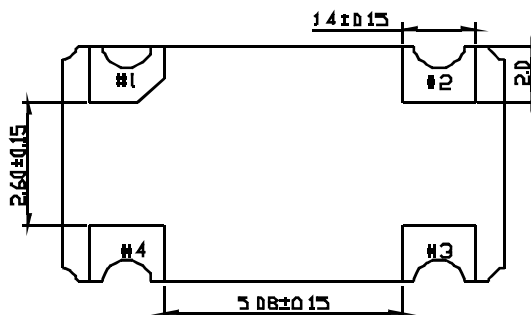
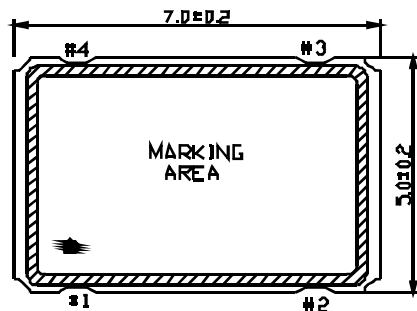
SPECIFICATION:

Parameter	Min	Typical	Max	Unit
Package	SMD7050			
Frequency Range(F0)	0.0137		150.00	MHz
Frequency Tolerance @25±3℃(ΔF/F0)	±20	F0	±50	PPM
Frequency Stability @TOPR(ΔF/F0)	±20	F0	±50	PPM
Operating Temperature Range(TOPR)	-40		+85	℃
Storage Temperature Range(TSTG)	-55		+125	℃
Operating Voltage(Vcc)	5.0±10%、3.3±10%、2.8±10% or 1.8±10%			V
Input Current On Load(Icc)			1(13.7 to 70.0KHz) 25(0.50 to 49.99MHz) 35(50.00 to 79.99MHz) 45(80.00 to 150.00MHz)	mA
Duty Cycle(η)	45	50	55	%
Rise Time (Tr)			50(13.7 to 70.0KHz) 10(0.50 to 23.99MHz) 8(24.00 to 79.99MHz) 6(79.99 to 150.00MHz)	ns
Fall Time (Tf)			50(13.7 to 70.0KHz) 10(0.50 to 23.99MHz) 8(24.00 to 79.99MHz) 6(79.99 to 150.00MHz)	ns
Start-up Time(Ts)			3	ms
Output Load	15PFHCMOS Typ			
Output Low Voltage Level("0")			10%Vcc	V
Output High Voltage Level("1")	90%Vcc			V
Remarking	Pin 1=H or open -- Output active at Pin 3 ; Pin 1=L -- high impedance at Pin 3			

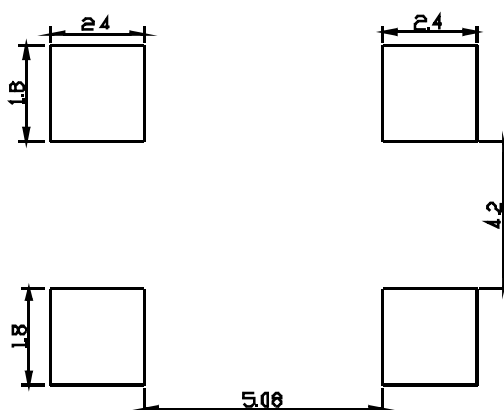
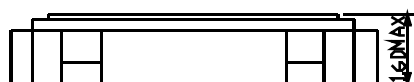




■ DIMENSIONS AND PIN FUNCTION:



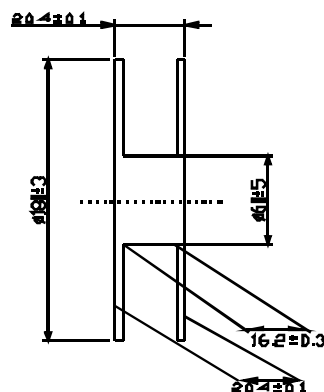
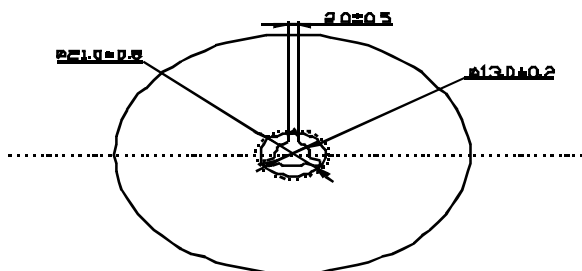
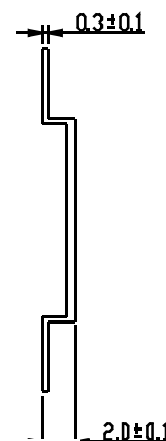
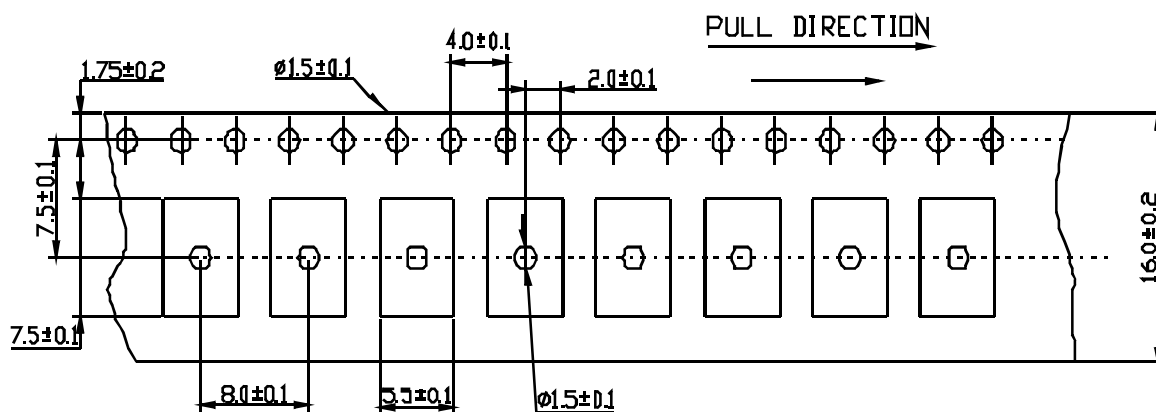
PIN	Function
#1	NC/Tri-state
#2	GND
#3	Output
#4	VCC



Recommended
Solder Pattern

Unit:mm

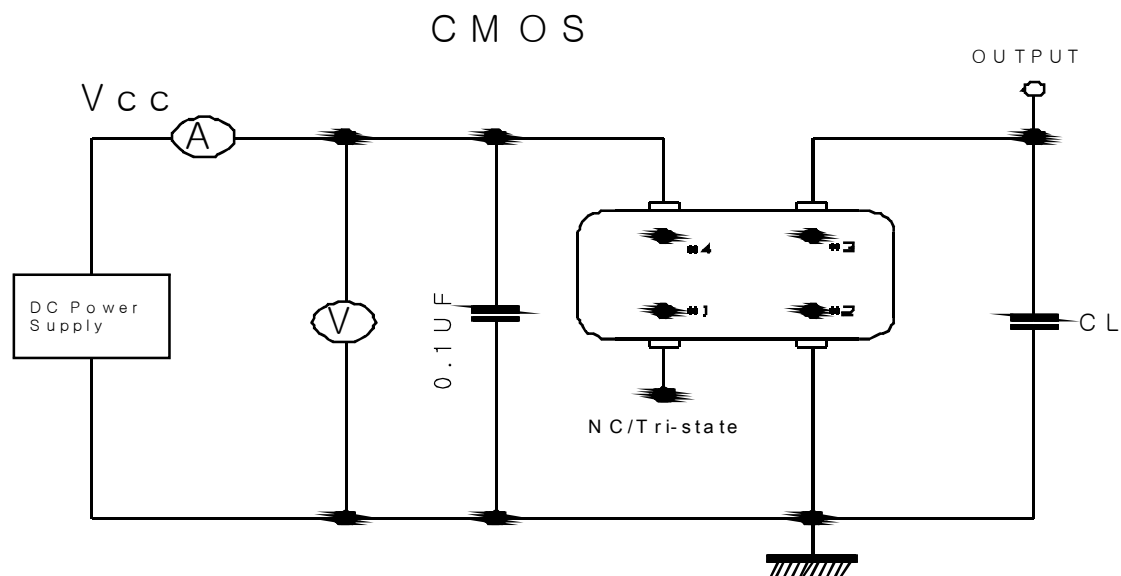
■ TAPING AND REEL:



Unit: mm



■ TEST CIRCUITS:



CL=15PF (including fixture and probe capacitance)

■ **OUTPUT WAVEFORM:**

$$\text{Duty}(\eta) = [TH / (TH + TL)] * 100\%$$

