



SMD5032 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

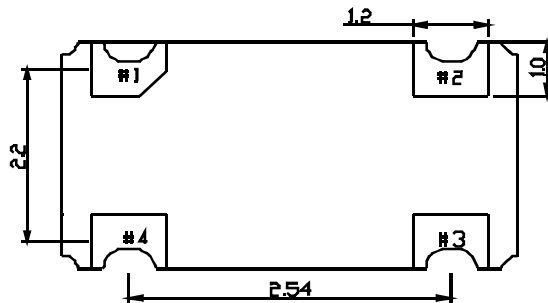
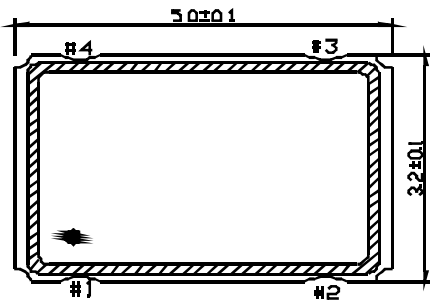
SPECIFICATION:

Parameter	Min	Typical	Max	Unit
Package	SMD5032			
Frequency Range(F0)	0.0137		150.00	MHz
Frequency Tolerance @25±3℃(△F/F0)	±20	F0	±50	PPM
Frequency Stability @T _{OPR} (△F/F0)	±20	F0	±50	PPM
Operating Temperature Range(T _{OPR})	-40		+85	℃
Storage Temperature Range(T _{STG})	-55		+125	℃
Operating Voltage(V _{cc})	5.0±10%、3.3±10%、2.8±10% or 1.8±10%			V
Input Current On Load(I _{cc})			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)			10(0.50 to 23.99MHz) 8(24.00 to 79.99MHz) 6(79.99 to 150.00MHz)	ns
Fall Time (Tf)			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%V _{cc}	V
Output High Voltage Level("1")	90%V _{cc}			V
Remarking	Pin 1=H or open --- Output active at Pin 3 ; Pin 1=L --- high impedance at Pin 3			

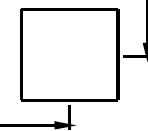
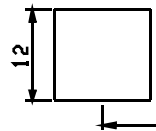
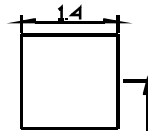
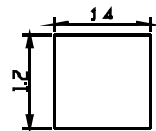




■ DIMENSIONS AND PIN FUNCTION:



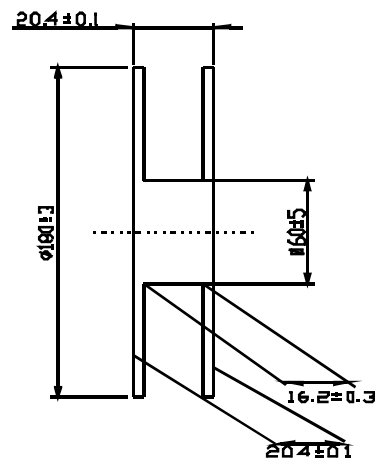
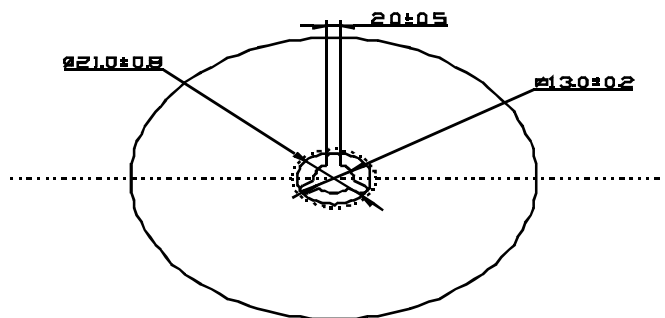
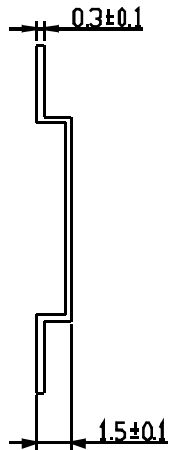
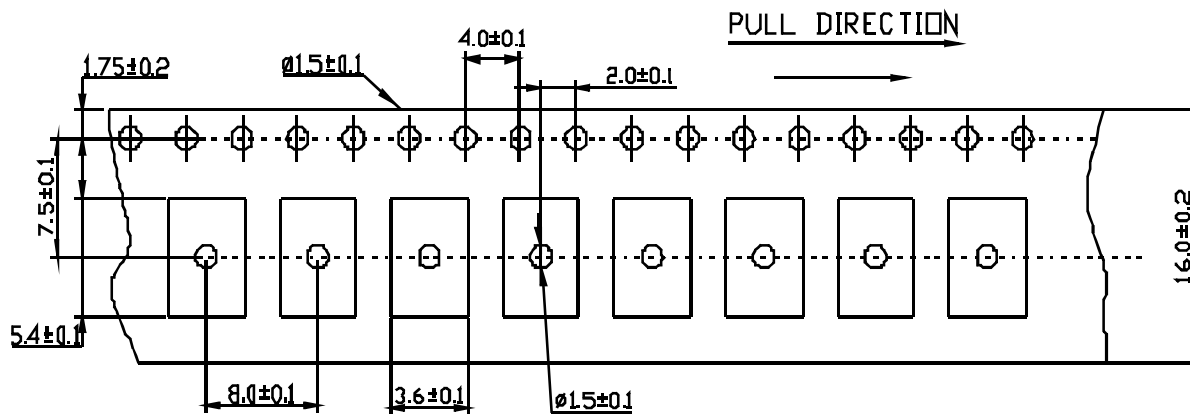
PIN	Function
#1	NC/Tri-state
#2	GND
#3	Output
#4	VCC



Unit:mm

Recommended
Solder Pattern

■ TAPING AND REEL:

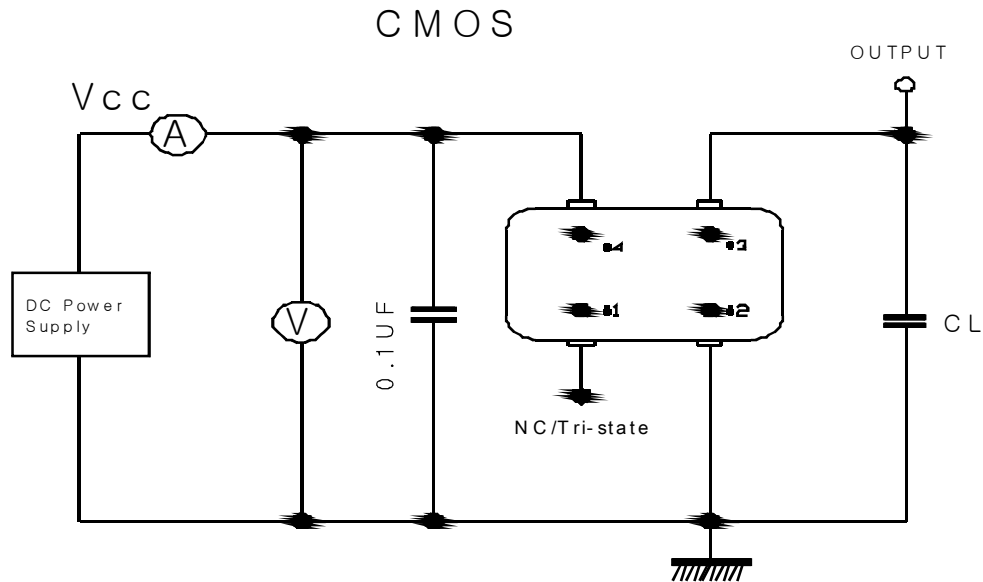


Unit: mm





■TEST CIRCUITS:



CL=15PF(including fixture and probe capacitance)

■OUTPUT WAVEFORM:

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

