



SMD3225 Crystal Oscillator



FEATURES

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

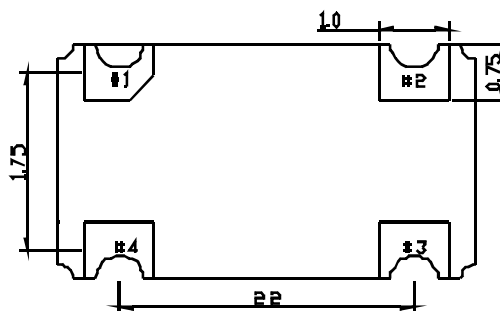
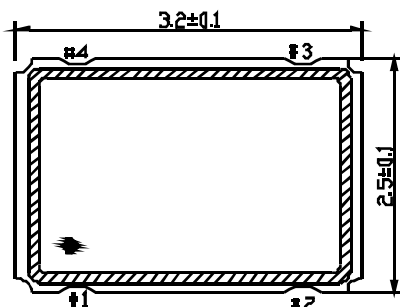
SPECIFICATION:

Parameter	Min	Typical	Max	Unit
Package	SMD32 25			
Frequency Range(F0)	0.0137		60.00	MHz
Frequency Tolerance @25±3℃(ΔF/F0)	±20	F0	±50	PPM
Frequency Stability @T _{OPR} (ΔF/F0)	±20	F0	±50	PPM
Operating Temperature Range(T _{OPR})	-40		+85	℃
Storage Temperature Range(T _{STG})	-55		+125	℃
Operating Voltage(V _{CC})	3.3±10%、2.8±10% or 1.8±10%			V
Input Current On Load(I _{CC})			1(13.7 to 70.0KHz) 25(2.0 to 49.99MHz) 35(50.00 to 60.0MHz)	mA
Duty Cycle(η)	45	50	55	%
Rise Time (Tr)			50(13.7 to 70.0KHz) 10(2.0 to 23.99MHz) 8(24.00 to 60.0MHz)	ns
Fall Time (Tf)			50(13.7 to 70.0KHz) 10(2.0 to 23.99MHz) 8(24.00 to 60.0MHz)	ns
Start-up Time(Ts)			3	ms
Output Load	15 PFHCMOS 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			

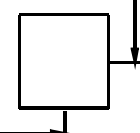
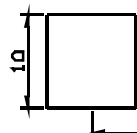
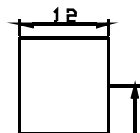
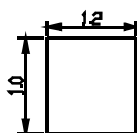
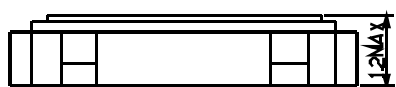




DIMENSIONS AND PIN FUNCTION:



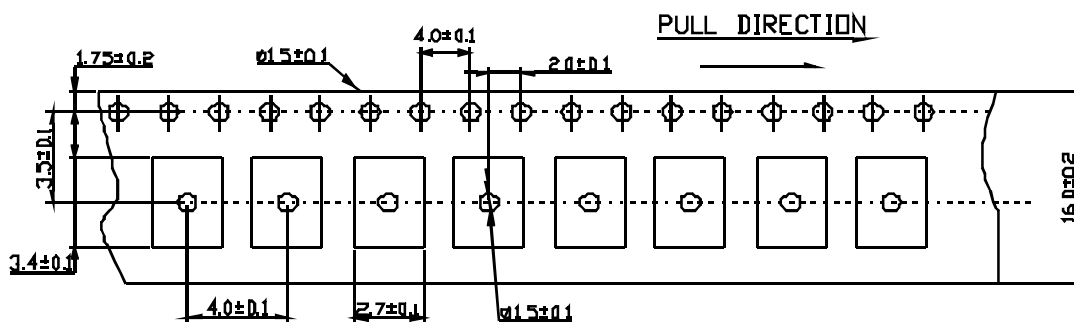
PIN	Function
#1	NC/Tri-state
#2	GND
#3	Output
#4	VCC



Unit:MM

Recommended
Solder Pattern

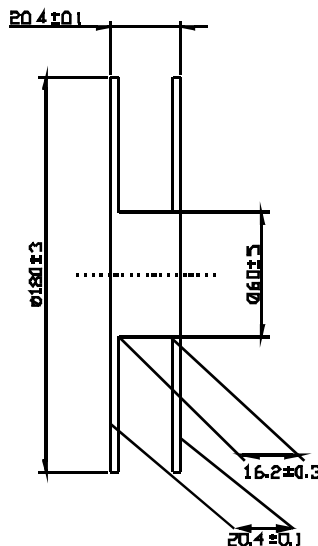
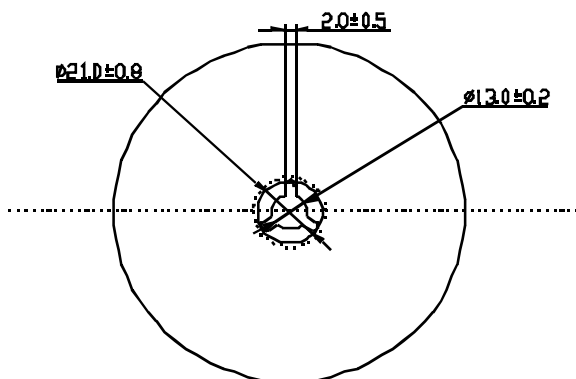
TAPING AND REEL:



PULL DIRECTION

0.25±0.1

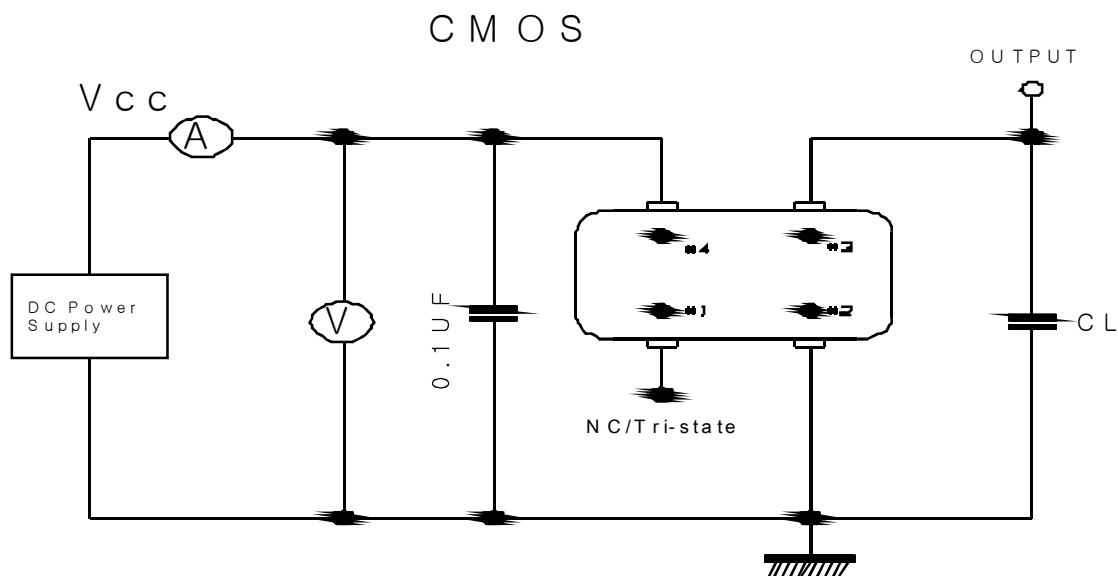
1.4±0.1



Unit: mm



■ TEST CIRCUITS:



CL=15PF (including fixture and probe capacitance)

■ OUTPUT WAVEFORM:

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

