

FEATURES:

- Miniature Package
- Low cost and high stability
- Industry Standard
- TTL/HCMOS Output Compatible

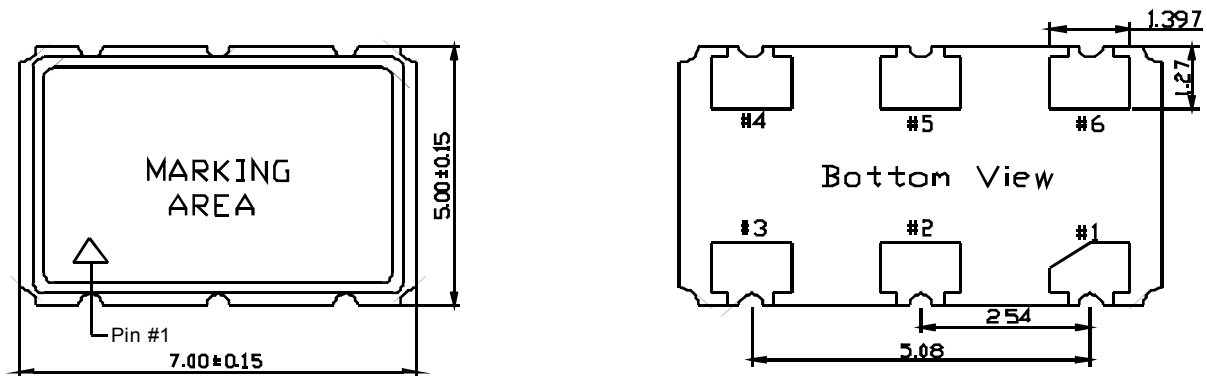
SPECIFICATION:

Parameter	Min	Typical	Max	Unit
Package	SMD7050			
Frequency Range(F0)	1.50		54.00	MHz
Frequency Tolerance @25±3 °C ($\Delta F/F0$)	±20	F0	±50	PPM
Frequency Stability @T ^{OPR} ($\Delta F/F0$)	±20	F0	±50	PPM
Operating Temperature Range(T ^{OPR})	-40		+85	°C
Storage Temperature Range(T ^{STG})	-55		+125	°C
Operating Voltage(Vcc)	5.0±10% or 3.3±10%			V
Control Voltage Range(Vcontrol)	2.50±2.45 or 1.65±1.60			V
Pull ability@ Control Voltage Range	±50		±150	PPM
Input Current On Load(Icc)			40(1.50 to 23.99MHz) 60(24.00 to 54.00MHz)	mA
Duty Cycle(η)	40	50	60	%
Rise Time (Tr)			10(1.50 to 23.99MHz) 8(24.00 to 54.00MHz)	ns
Fall Time (Tf)			10(1.50 to 23.99MHz) 8(24.00 to 54.00MHz)	ns
Output Load	15PFHCMOS Typ			
Output Low Voltage Level("0")			10%V ^{CC}	V
Output High Voltage Level("1")	90 %V ^{CC}			V





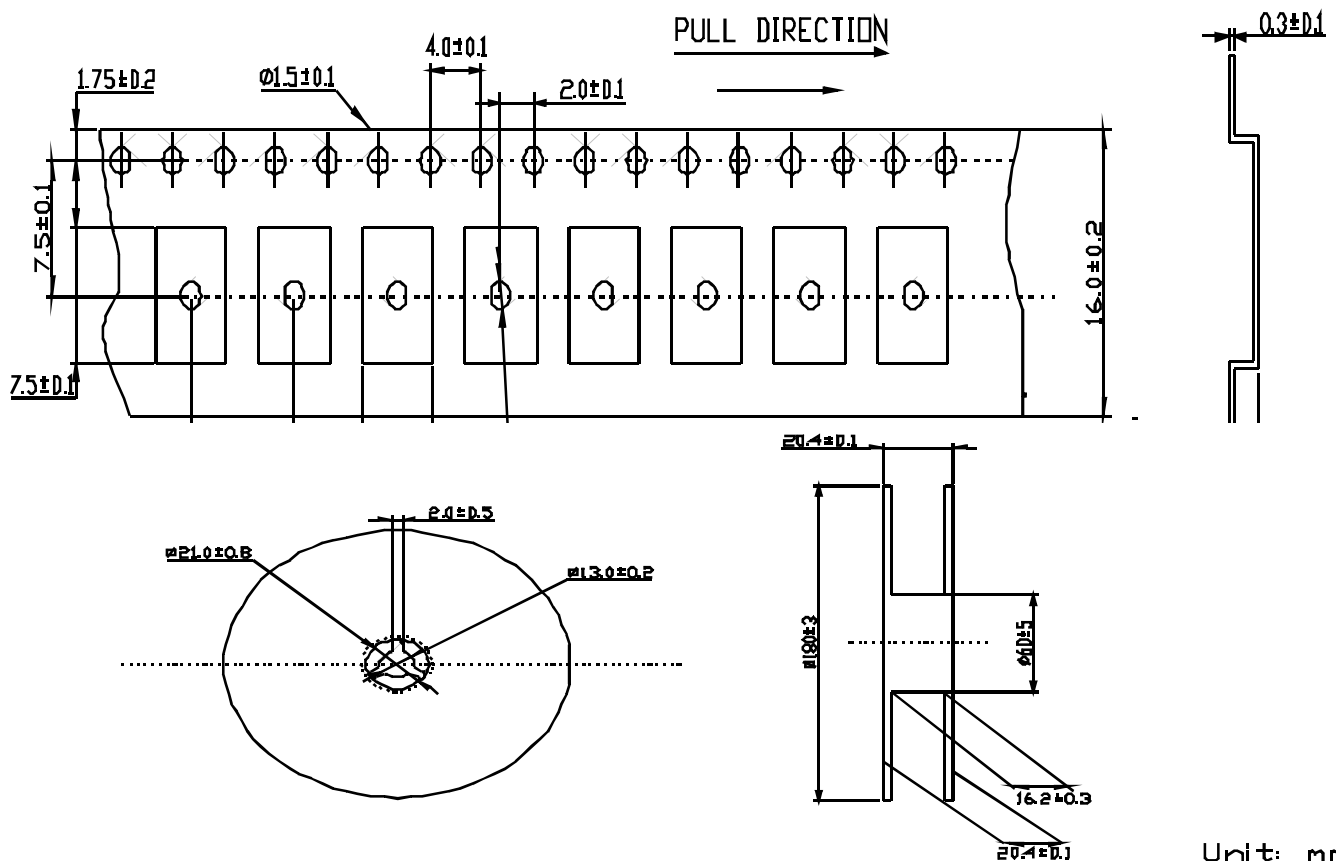
■ DIMENSIONS AND PIN FUNCTION:



Package Drawing
Unit:mm

Pin#	Symbol	Function
1	Vtrol	Control Voltage
2	NC	This pin has no internal connection
3	GND	Ground
4	Output	Output Frequency
5	NC	This pin has no internal connection
6	Vcc	Supply Voltage

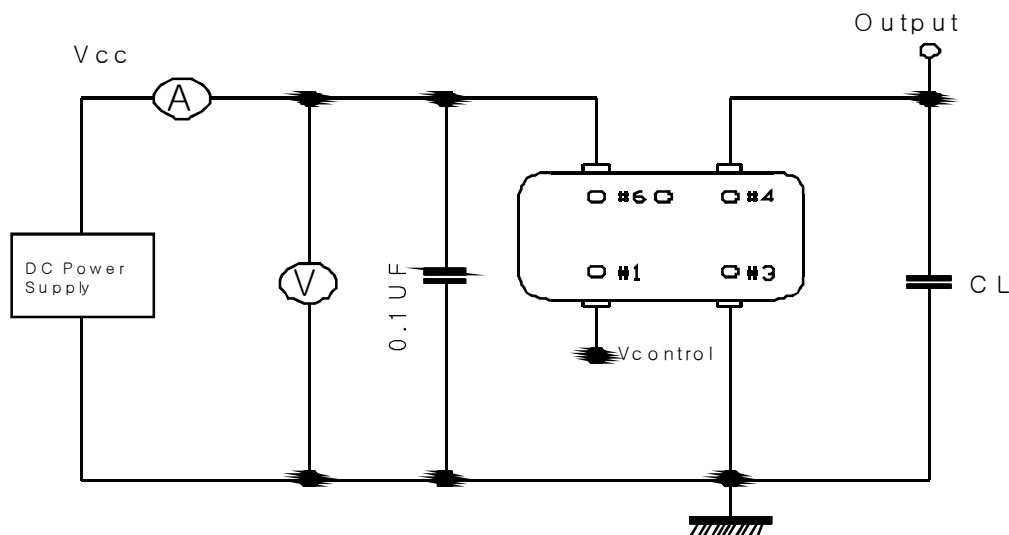
■ TAPING AND REEL:



Unit: mm



■ TEST CIRCUITS:



$C_L = 15\text{PF}$ (including fixture and probe capacitance)

■ OUTPUT WAVEFORM:

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

