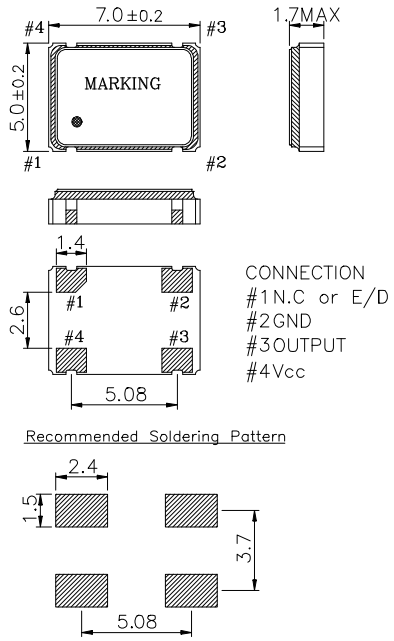
# Excequal

Clock Oscillator

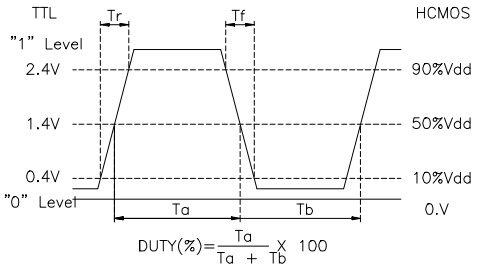
# CO75

1MHz ~ 300MHz HCMOS/TTL 15pF or 10TTL

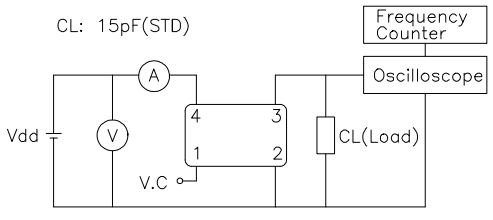
## MECHANICAL DIMENSIONS




## OUTPUT WAVEFORM




## TEST CIRCUIT




## ELECTRICAL SPECIFICATION

| | |
|---|---|
| Frequency range | 1.000MHz to 200.000MHz<br>All combination of Frequency range Vs. Package type might not be available ,please contact factory |
| Frequency Stability<br>vs. Temperature<br>vs. Aging | <br>± 10 ppm to ±50ppm<br>±3.0 ppm max/ year |
| Temperature Range<br>Operating<br>Storage | <br>See Table 2<br>-55℃ to 105℃ |
| Supply Voltage | 3.3V ± 5%<br>5.0V ± 5% |
| Input Current | 3.3V / 5.0V<br>fo ≤ 25.000MHz: 15mA / 25mA<br>fo ≤ 50.000MHz: 25mA / 40mA<br>fo ≤ 80.000MHz: 35mA / 60mA<br>fo ≤ 106.250MHz: 40mA / 80mA<br>fo ≤ 200.000MHz: 50mA |
| Output characteristics<br>HCMOS / TTL | HCMOS / TTL<br>Logic "1": 90% Vdd min / 2.4V min<br>Logic "0": 10% Vdd max / 0.4V min<br>Load: 15pF / 10TTL<br>Duty Cycle: 40/60 / 40/60<br>Rise & Fall: 10nS max / 10nS max |
| Pin 1 Tri-State Input Voltage | No Connection: Enable Output<br>Vh ≥ 2.0 Vdc: Enable Output<br>Vl ≤ 0.8 Vdc: Disable Output |

## ENVIROMENTAL & MECHANICAL SPECIFICATION

| | |
|---|---|
| Shock | MIL-STD-883C, Method 2002, Condition B |
| Vibration | MIL-STD-883C, Method 2007, Condition A |
| Solderability | MIL-STD-883C, Method 2003 |
| Seal integrity | MIL-STD-883C, Method 1014, Condition C & A2 |
| Marking | MIL-STD-202F, Method 215 |

## TABLE1

| Symbol | Stability |
|---|---|
| 10 | ± 10ppm |
| 15 | ± 15ppm |
| 20 | ± 20ppm |
| 30 | ± 30ppm |
| 50 | ± 50ppm |
| 100 | ±100ppm |

## TABLE2

| Symbol | Temp. | Symbol | Temp. |
|---|---|---|---|
| 0 | 0℃ | A | 50℃ |
| 1 | -10℃ | B | 60℃ |
| 2 | -20℃ | C | 70℃ |
| 3 | -30℃ | D | 75℃ |
| 4 | -40℃ | E | 80℃ |
| | | F | 85℃ |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