

1030 SERIES

■ Features

- Highly reliable double sealed package.
- Aging $\pm 2 \times 10^{-6}$ /year is guaranteed.
- Directly drives the C-MOS IC.
- Metal packaged crystal unit is built-in to realize high reliability.
- Available frequency range: 24MHz~70MHz
- Stand-by function for output: Tri-state output.

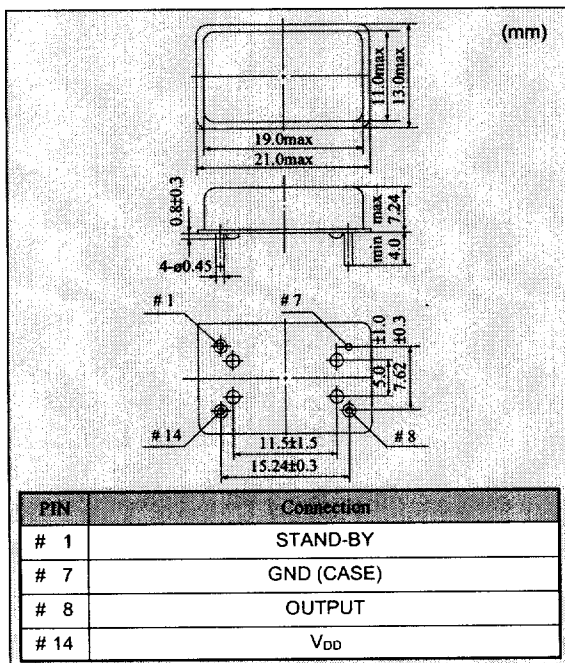
■ Absolute Maximum Rating
Supply Voltage (V_{DD}) -0.5~+7.0V DC
Storage Temperature Range -55~+125°C

| Item | Model | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 |
|---|----------------------|---|-------|----------------------|-------|---------------------------------|----------------------|
| Frequency Range | (MHz) | 24~30 | 30~34 | 34~42 | 42~50 | 50~56 | 56~70 |
| Frequency Stability | ($\times 10^{-4}$) | $\pm 50, \pm 100/0 \sim +70^\circ\text{C}$ | | | | | |
| Aging | | $\pm 2/\text{year}$ | | | | | |
| Supply Voltage (V _{DD}) | (V) | $+5 \pm 10\%$ | | | | | |
| Current Consumption | (mA) +5VDC, 25°C | 18 (TYP) 25 (max) | | 20 (TYP) 30 (max) | | 25 (TYP) 35 (max) | 30 (TYP) 40 (max) |
| V _{OL} max/V _{OH} min | (V) | $0.5/V_{DD} - 0.5$ I _{OL} =16mA I _{OH} =-13mA | | | | | |
| T _r max/T _f max | (ns) | $5/5 (0.1V_{DD} \sim 0.9V_{DD})$ | | | | | |
| Duty Cycle | (%) | 45~55 (at +1/2V _{DD}) | | | | 40~60 (at +1/2V _{DD}) | |
| Fanout (gate) | C _L (pF) | 15 (max50) | | | | | |
| Stand-by Function | Tri-state | Yes | | | | | |

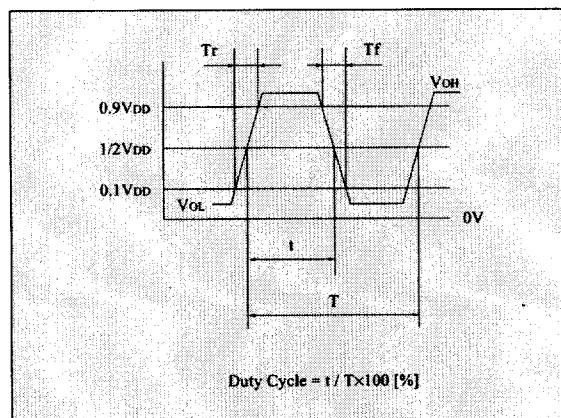
Note: The values of Current Consumption, T_r/T_f, Duty Cycle show the standard values under C_L=15pF.

CRYSTAL CLOCK OSCILLATORS

■ 1030 Series Outline



■ Output Wave <C-MOS>



■ Stand-by Function <Tri-state>

| # 1 pin input | # 8 pin output |
|--------------------------------|----------------|
| H level (+2.2 Vmin) or open | Operating |
| L level (+0.8 Vmax) | High impedance |