

Tuning Fork Crystal



FEATURES

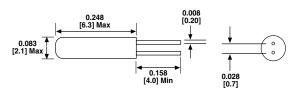
- Miniature package
- Low cost
- KHz frequency
- Tight tolerance
- 100 % Lead (Pb)-free and RoHS compliant



The tuning fork type quartz crystal provides ultimate in size, performance and economic trade-offs. So it is used as a clock source in communication equipment, measuring instrument, microprocessor and other time management applications.

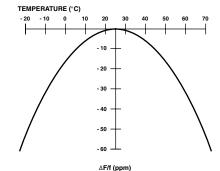
| STANDARD ELECTRICAL SPECIFICATIONS | | | | | | | |
|------------------------------------|------------------|---------------------|------------------------|-------|---------|---------|--|
| PARAMETER | SYMBOL | CONDITION | UNIT | MIN | TYPICAL | МАХ | |
| Frequency Range | Fo | | KHz | | 32.768 | | |
| Frequency Tolerance | $\Delta F/F_0$ | at 25 °C | ppm | | ± 20 | | |
| Frequency Coefficient | К | ref to 25 °C | ppm/(∆°C) ² | | | - 0.042 | |
| Operating Temperature Range | T _{OPR} | | °C | - 10 | | + 60 | |
| Storing Temperature Range | T _{STG} | | °C | - 20 | | + 70 | |
| Shunt Capacitance | Co | | pF | | 0.85 | 2 | |
| Motional Capacitance | C ₁ | | fF | 1 | 2 | 4 | |
| Load Capacitance | CL | | pF | | 12.5 | | |
| Insulation Resistance | IR | 100 V _{DC} | MΩ | 500 | | | |
| Drive Level | DL | | μW | | | 1 | |
| Aging (first year) | Fa | at 25 °C ± 3 °C | ppm | - 5.0 | | + 5.0 | |
| Equivalent Series Resistance(ESR) | Rs | | KΩ | | | 50 | |

DIMENSIONS in inches [millimeters]



| ORDERING INFORMATION | | | | | |
|----------------------|---------------|----------------------------------|--|--|--|
| | | | | | |
| XT26T | 32.768 kHz | e2 | | | |
| MODEL | FREQUENCY/kHz | JEDEC LEAD (Pb)-FREE STANDARD | | | |

PARABOLIC TEMPERATURE CURVE

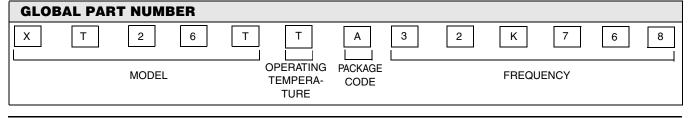


To determine frequency stability, use parabolic curvature (k). For example: What is stability at 45 °C?

1) Change in Temperature (°C) = 45 - 25 = 20 °C

2) Change in Frequency = - 0.042 ppm*(Δ° C)

- = 0.042 ppm*(20)²
 - = 16.8 ppm (max)

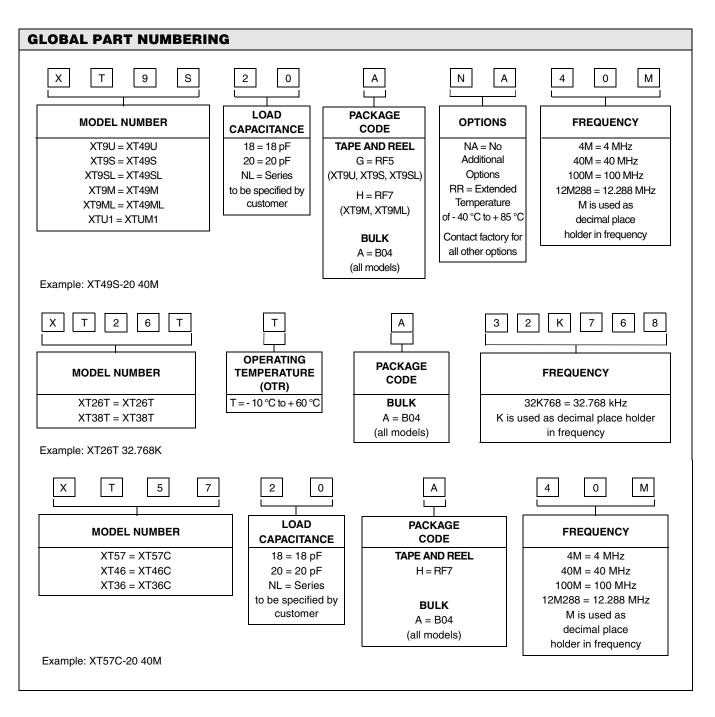




Tuning Fork Crystal

XT26T

Vishay Dale





Vishay

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