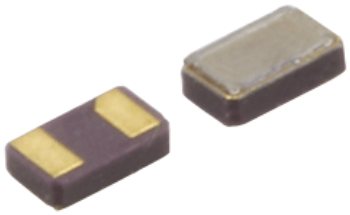
TF20 Series

Tuning Fork Crystal



Part Dimensions:
2.0 × 1.2 × 0.6mm • 4.5926mg

Features

- 32.7680kHz Frequency Reference
- Tuning Fork Crystal Design
- Hermetic Ceramic Surface Mount Package
- Ideal for High Density Circuit Boards
- Frequency Tolerance, ±20ppm Standard
- Parabolic Temperature Coefficient
- Tape and Reel Packaging, EIA-418

Applications

- Real Time Clock Reference
- FPGAs & Microcontrollers
- Wearable Electronics
- IoT Applications
- Consumer Electronics
- Healthcare Devices
- Smart Meters
- Instrumentation

Description

CTS TF20 Series is ideal for supporting wide range of electronic designs requiring a Real Time Clock reference. This series will support general commercial and industrial applications.

Ordering Information

Model	Frequency Tolerance	Load Capacitance	Frequency Code [kHz]	Packaging
TF 20	2	P	32K7680	R

Code	Package
20	2.0x1.2mm

Code	Capacitance
P	12.5pF
J	9pF
V	7pF
W	5pF

Code	Packing
R	3k pcs./reel

Code	@ +25°C
2	±20ppm
1	±10ppm

Code	Frequency
Product Frequency Code [1]	

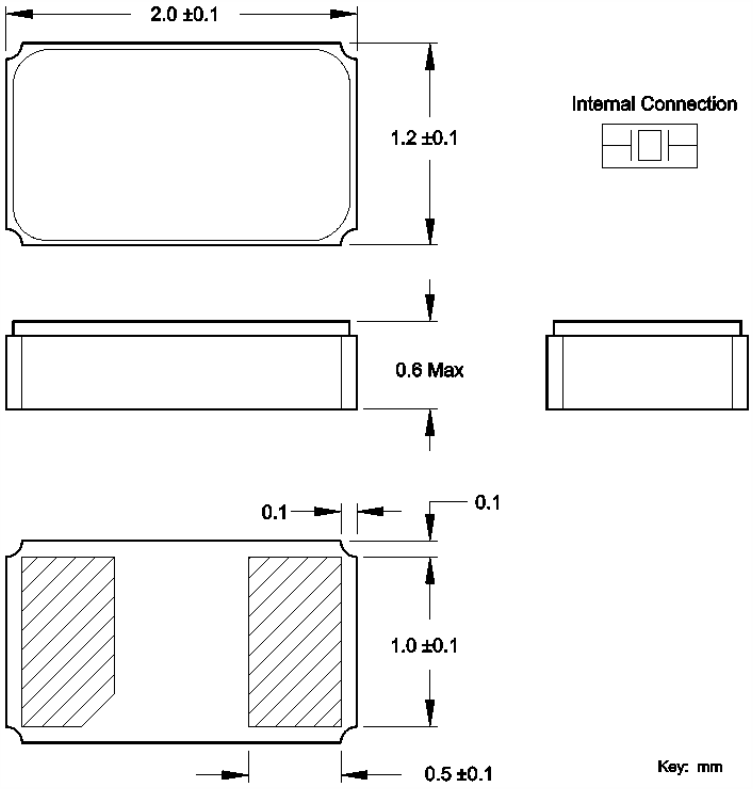
Notes:

1] Frequency is recorded with two leading digits before the 'K' and 4 significant digits after the 'K' [including zeros].

Not all performance combinations and frequencies may be available.
Contact your local CTS Representative or CTS Customer Service for availability.

Mechanical Specifications

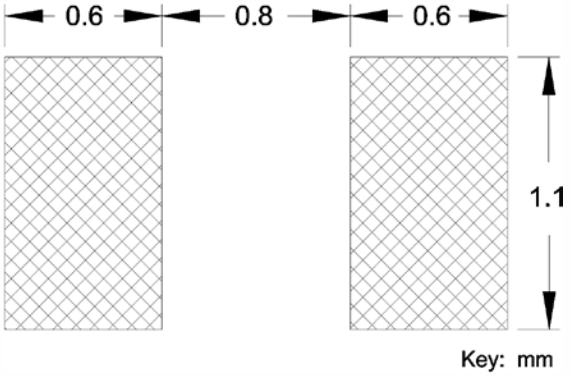
Package Drawing



Marking Information

Refer to document 016-0071-0, TF Marking Guide, for marking format by product family.

Recommended Pad Layout



Notes

1. JEDEC termination code (e4). Barrier-plating is nickel [Ni] with gold [Au] flash plate.
2. Reflow conditions per JEDEC J-STD-020; +260°C maximum, 20 seconds.
3. MSL = 1.