



## SX1 HIGH TEMPERATURE QUARTZ CRYSTAL

30 kHz to 250 MHz

High Temperature (up to 260°C)

### DESCRIPTION

Statek's SX crystals are designed to achieve operation at temperatures up to and including 260°C. Each crystal is pre-qualified before assembly in TO-39 package through electrical tests and characterization over temperature.

### FEATURES

- High temperature operation up to 260°C
- Double hermetic seal for ultimate reliability
- Excellent stability over wide temperature ranges

### APPLICATIONS

- Downhole instrumentation
- Rotary shaft sensor
- Underground boring tools
- MWD (measurement while drilling)
- Avionics applications
- Engine Control

### SPECIFICATIONS

Specifications are typical at 25°C unless otherwise noted.  
Specifications are subject to change without notice.

|                                  |                                 |
|----------------------------------|---------------------------------|
| Frequency Range <sup>1</sup>     | 30 kHz to 250 MHz               |
| Calibration Tolerance required   | ± 20 ppm or tighter as required |
| Operating Temperature Range      | -55°C up to +260°C              |
| Aging, first year                | 5 ppm at 25°C                   |
| Shock, survival <sup>2</sup>     | 5,000 g, 0.3 ms, 1/2 sine       |
| Vibration, survival <sup>3</sup> | 20 g, 10-2,000 Hz swept sine    |

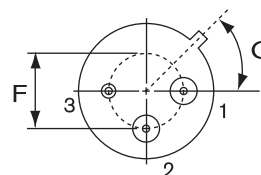
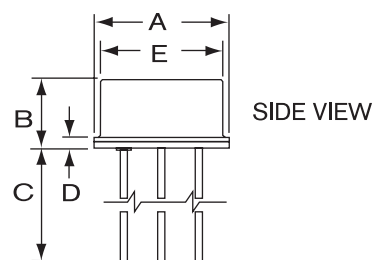
1. Contact factory for available frequencies within this range.

2. Higher shock version available.

3. Per MIL-STD-202G, Method 204D, Condition D. Random vibration testing also available.



### PACKAGE DIMENSIONS



BOTTOM VIEW

Pin:  
1 - Crystal  
2 - Crystal  
3 - Ground / Case

| DIM | inches    | mm        |
|-----|-----------|-----------|
| A   | 0.380 MAX | 9.65 MAX  |
| B   | 0.185 MAX | 4.70 MAX  |
| C   | 0.500 MIN | 12.70 MIN |
| D   | 0.029     | 0.74      |
| E   | 0.326 MAX | 8.28 MAX  |
| F   | 0.200 REF | 5.08 REF  |
| G   | 45°       | 45°       |

Note:

1. All metal parts gold plated

2. Leads are 0.019 in.[0.48 mm] MAX.

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