



## TAS-3225A

### SMD Type Crystal Units

#### ■ Feature

The ceramic package with high reliability using Au-Sn alloy is used. This is low profile. At-cut quartz crystal excellent shock and vibration performance, wide frequency range, high mechanical shock resistance, suitable for reflow soldering. Products are supplied on tape and reel.

- Standard Model



#### ■ Specifications

Size	3.2×2.5×0.75 (mm)
Overtone Order	Fundamental
Frequency Range	10.0 ~ 70.0 MHz (Table 1)
Equivalent Series Resistance	50 ~ 200 Ω
Drive Level	50 μW
Operating Temperature Range	Table 2
Frequency Temperature Characteristics (in reference to 25 °C)	Table 2

■ Table 1 Standard Frequencies

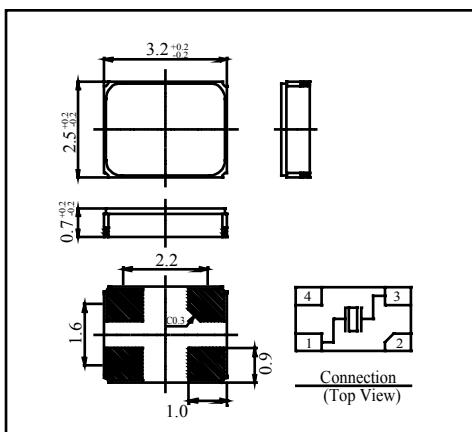
Standard Frequency (MHz)	
13.000	14.400
16.000	19.200
19.680	19.800
24.000	26.000
32.000	48.000
54.000	

■ Table 2 Frequency Temperature Characteristics

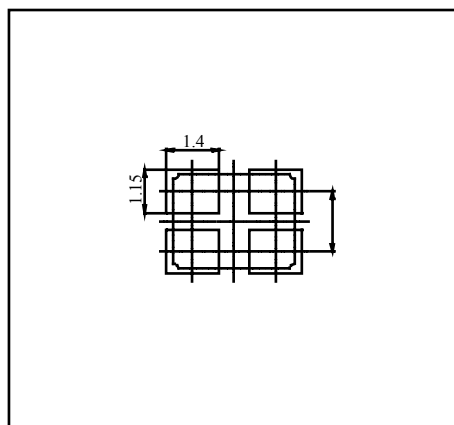
Temperature Range	Temperature Characteristics	Frequency Tolerance
-10 ~ 60 °C	±5 ppm	
-20 ~ 70 °C	±10 ppm	±10 ~ ±50 ppm
-30 ~ 80 °C	±15 ppm	(25 °C ± 3°C)

□ Products with specific requirements are available upon request.

#### ■ Outline



#### ■ Reference Land Pattern



For further information please contact:

coftech GmbH, Heinrich-Held-Str. 33, 45133 Essen (Germany)

Phone: +49(0)201 8722571 ; Fax: +49(0)201 8722555; Email: kramer@coftech.de