

Package code : TAS-3225H

Miniature Surface Mount Crystal

■Feature

- Small footprint , reduced height (3.2×2.5, 0.70 max.).
- Hermetically sealed - [Gold-Tin(Au-Sn) methodology]
- High Reflow Temperature Tolerant.
- RoHS compliant - Lead Free
- Frequency starting from 10MHz.

■Applications Bluetooth, OA(office automation) and AV

■Standard Specifications

Characteristic	Value
Size (mm)	3.2×2.5, 0.70t max.
Overtone Order	Fundamental
Frequency Range (MHz)	10 to 13 (See Table 1)
Equivalent Series Resistance (Ω)	300 max.(10 to 11MHz) 100max. to 200 max.(11 to 12MHz) 50max. to 100 max.(12 to 13MHz)
Drive Level (μWatts)	10, 30
Operating Temperature Range	See Table 2
Frequency Temperature Characteristics (in reference to 25 °C)	See Table 2



■Table 1 Typical Frequencies

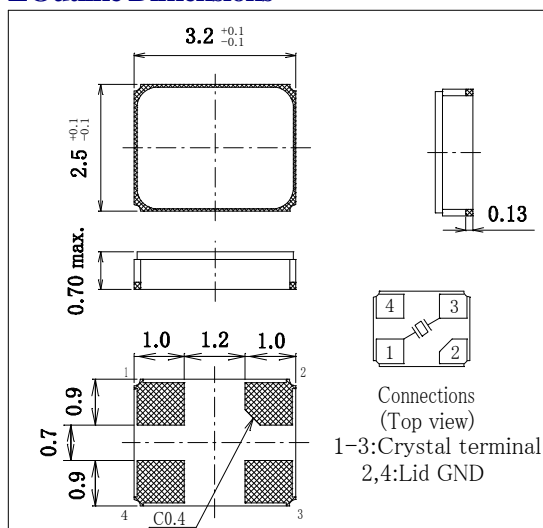
Frequency (MHz) - ESR	
12.000[ESR=100 Ωmax]	12.288[ESR=100 Ωmax]
12.800[ESR=100 Ωmax]	13.000[ESR=100 Ωmax]

Note : Modified specifications are available upon request for specific applications.

■Table 2 Frequency vs. Temperature Characteristics

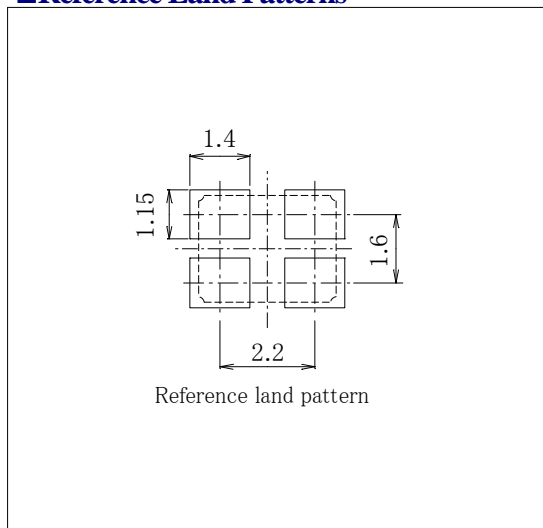
Temperature Range	Stability (ppm)	Frequency Tolerance (ppm@25°C)
-20 to 70 °C	±10 max	±10 max (25 °C ± 3°C)
-30 to 85 °C	±15 max	

■Outline Dimensions



The ordering number will be obtained separately by customer's requirement.

■Reference Land Patterns



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Specifications subject to change without notice. Jan / 2011