

TAS-3225D

Miniature Surface Mount Type Crystal Units

■Feature

Small size area with reduced height (3.2×2.5, 0.55±0.05). Hermetic sealing by Au-Sn method. Part is preconditioned to temperatures well beyond lead free reflow for unsurpassed reliability. Frequency starting from 13MHz. Extremely well suited for all Cellular Phones, NFC, Bluetooth, WLAN, DBV-H and Zigbee where small size is important. Product is lead free in construction. Can be mounted to PCB using a lead free solder reflow process.

Now printing

■Standard Specifications

Size (mm)	3.2×2.5, 0.60t max.		
Overtone Order	Fundamental		
Frequency Range (MHz)	13 ~ 60 (<i>See Table 1</i>)		
Equivalent Series Resistance (Ω)	120 max.		
Drive Level (μW)	30, 50		
Operating Temperature Range	See Table 2		
Frequency Temperature Characteristics	See Table 2		
(in reference to 25 °C)			

■Table 1 Typical Frequencies

Frequency (MHz)				
13.000	14.400			
16.000	19.200			
19.680	19.800			
24.000	26.000			
32.000	36.000			
40.000	44.000			

■ Table 2 Frequency Temperature Characteristics

Temperature Range	Temperature Characteristics(×10 ⁻⁶)	Frequency Tolerance(×10 ⁻⁶)	
-10 ~ 60 °C	±5		
-20 ~ 70 °C	±10	$\pm 10 \sim \pm 50$ (25 °C ± 3°C)	
-30 ~ 85 °C	±15	, /	

 Products with specific requirements are available request.

■Outline Dimensions

3.2 +0.2 0.35 0.35 1.0 1.2 1.0 1.0 1.2 1.0 Connections (Top view) 1-3: Crystal terminal 2,4: Lid GND

■Reference Land Pattern

