

TSS-5032A

Surface Mount Type Crystal Units

■ Feature

Standardized 5.0×3.2mm package. Hermetic sealing by seam welding. Excellent mechanical shock and vibration resistance. Suitable for all Cellular Phones, NFC, Bluetooth, WLAN and Zigbee where small size is not critical. Product is lead free in construction. Can be mounted to PCB using a lead free solder reflow process.

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■ Standard Specifications

Size (mm)	5.0×3.2, 0.90±0.1	
Overtone Order	Fundamental / 3rd Overtone	
Frequency Range (MHz)	Fundamental	10 ~ 60 (See Table 1)
	3rd Overtone	60 ~ 100
Equivalent Series Resistance (Ω)	Fundamental	100 max.
	3rd Overtone	80 max.
Drive Level (μW)	50	
Operating Temperature Range	See Table 2	
Frequency Temperature Characteristics (in reference to 25 °C)	See Table 2	

■ Table 1 Typical Frequencies (Fundamental)

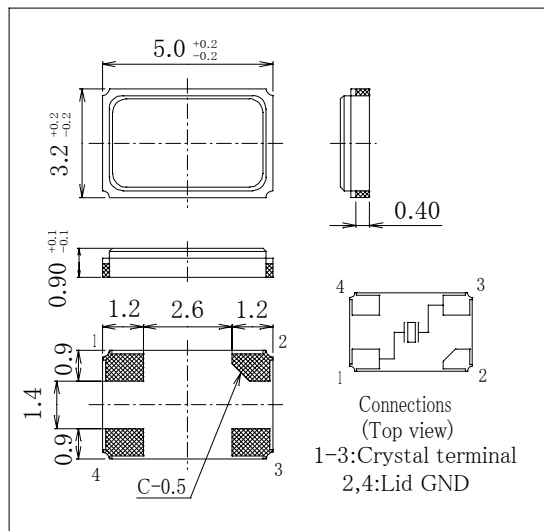
Frequency (MHz)			
10.000	11.0592	12.000	12.288
13.000	13.560	14.400	14.7456
16.000	16.368	16.384	18.432
19.200	19.500	20.000	21.250
24.000	24.5535	24.576	26.000
27.000	32.000	39.000	40.000
44.000	54.000		

■ Table 2 Frequency Temperature Characteristics

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

* Products with specific requirements are available request.

■ Outline Dimensions



■ Reference Land Pattern

