

# TSS-5032B SERIES

## SMD Type Crystal Units for Automobile Application

### ■ Feature

Designed for shock intensive automotive applications such as remote keyless entry or advanced chassis control system. Six point PCB attachment for ultimate component adhesion. Common standard 5.0x3.2mm package size. Hermetic sealing by seam welding. TSS-5032B and TSS-5032B-2 are for tight frequency tolerances. TSS-5032B-4 type for highest shock resistance. Product is lead free in construction. Can be mounted to PCB using a lead free solder reflow process.

Now printing

### ■ Standard Specifications

Size (mm)	5.0x3.2, 0.95±0.1	
Overtone Order	Fundamental / 3rd Overtone	
Frequency Range (MHz)	Fundamental / 3rd Overtone	10 ~ 60 / 60 ~ 100
Equivalent Series Resistance (Ω)	Fundamental / 3rd Overtone	30 ~ 150 / 60 ~ 100
Drive Level (μW)	50	
Operating Temperature Range	See Table 1	
Frequency Temperature Characteristics (in reference to 25 °C)	See Table 1	

### ■ Table 1 Frequency Temperature Characteristics

\* Products with specific requirements are available

Temperature Range	Temperature Characteristics( $\times 10^{-6}$ )		Frequency Tolerance( $\times 10^{-6}$ )	
	5032B, 5032B-2	5032B-4	5032B, 5032B-2	5032B-4
-30 ~ 85 °C	±15	-	±10 ~ ±50 (25 °C ± 3°C)	±50 (25 °C ± 3°C)
-40 ~ 90 °C	±25	-		
-40 ~ 105 °C	-	±100		
-40 ~ 125 °C	-	±150		

### ■ Outline Dimensions

### ■ Reference Land Pattern

