

# Package : TSS-6035B

## Surface Mount Type Crystal Units

### ■Feature

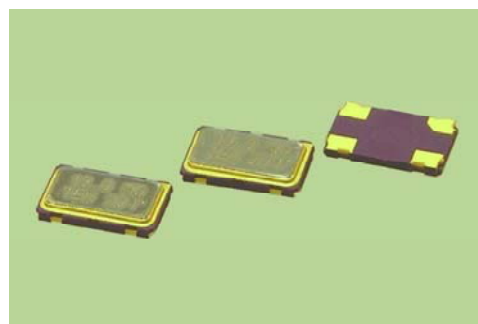
Common standard 6.0×3.5mm package. Hermetic sealing by seam welding. Frequency starting from 8MHz. Excellent mechanical shock and vibration resistance. Product is lead free in construction. Can be mounted to PCB using a lead free solder reflow process.

### ■Application

Automotive telematics , mobile radio telecommunication equipment.

### ■Standard Specifications

Size (mm)	6.0×3.5, 0.90±0.1	
Overtone Order	Fundamental / 3rd Overtone	
Frequency Range (MHz)	Fundamental	8 ~ 45 (See Table 1)
	3rd Overtone	45 ~ 100
Equivalent Series Resistance (Ω)	Fundamental	50max. to 200max.
	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)	
8.000[ESR= 200 Ω max.]	9.843[ESR=120 Ω max.]
10.178[ESR=120 Ω max.]	11.059[ESR=120 Ω max.]
12.000[ESR= 60 Ω max.]	16.000[ESR= 50 Ω max.]
19.200[ESR= 50 Ω max.]	20.000[ESR= 50 Ω max.]
24.000[ESR= 50 Ω max.]	26.000[ESR= 50 Ω max.]
27.000[ESR= 50 Ω max.]	39.000[ESR= 50 Ω max.]
40.000[ESR= 50 Ω max.]	44.000[ESR= 50 Ω max.]

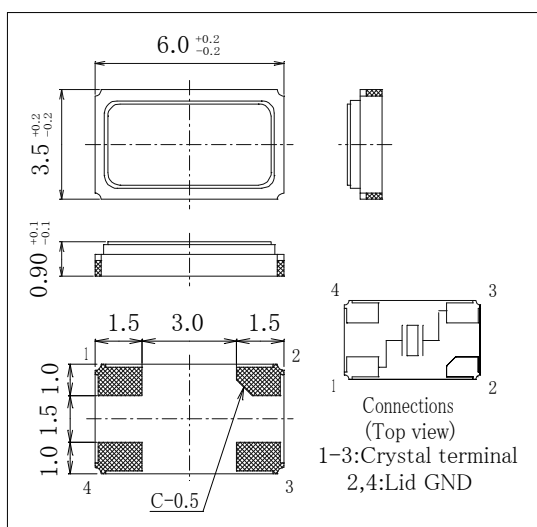
■Table 2 Frequency Temperature Characteristics

Temperature Range	Temperature Characteristics(ppm)	Frequency Tolerance(ppm@25°C)
-10 to 60 °C	±5 ppm	±10ppm max , ±20ppm max (25 °C ± 3°C)
-20 to 70 °C	±10 ppm	
-30 to 85 °C	±15 ppm	

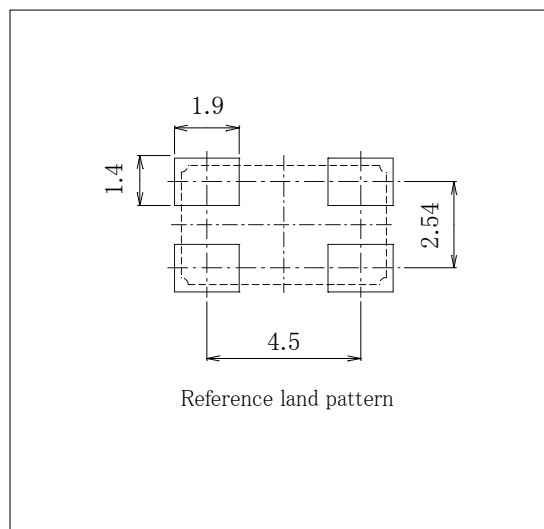
Note :

Modified specifications are available upon request for specific applications.

### ■Outline Dimensions



### ■Reference Land Pattern



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