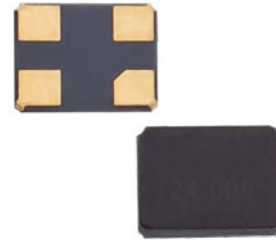


## Features

- 2520 size ultra miniature and lightweight SMD crystal units with low profile of 0.75mm
- Frequency range from 12MHz to 64MHz
- High precision and high frequency stability
- Automatic mounting and reflow soldering
- Applications: *Wireless Communications, PC, DSC, PDA, Wearables, etc.*
- Contains Pb in sealed glass exempted by RoHS directive



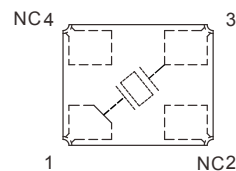
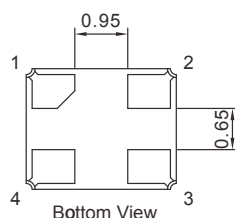
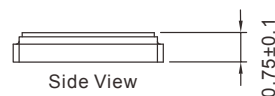
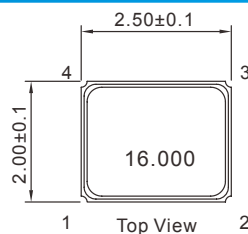
## Standard Specifications

Type	7Z Glass Sealed SMD Crystal
Frequency Range	12~64 MHz
Frequency Tolerance (at 25°C)	±10ppm, ±20ppm
Frequency Stability (over Operating Temp.)	±10ppm, ±20ppm
Operating Temperature Range	-20~+70°C, -40~+85°C
Shunt Capacitance (C <sub>0</sub> )	5pF Max.
Drive Level	1~50μW (10μW Typ.)
Load Capacitance	8pF, 10pF, or specify
Aging (at 25°C)	±3ppm /year Max.
Storage Temperature Range	-55~+125°C
Packing Unit	3000pcs./Reel

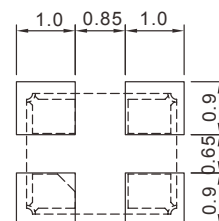
## Equivalent Series Resistance

Fundamental			
12~13 MHz	200Ω Max.	20~27 MHz	80Ω Max.
13~16 MHz	15Ω Max.	27~64 MHz	60Ω Max.
16~20 MHz	100Ω Max.		

## Dimensions [mm]



Top View Crystal Connection



Top View Suggested Layout