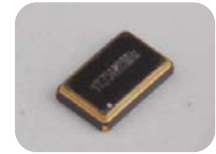


# SMD CRYSTAL

## Features

- Typical 2.5x2.0x0.55 mm ultra thin ceramic package..
- Automatic mounting is possible.
- RoHS compliant and lead free
- Packing : Tape & Reel.



## Specifications

RoHS Compliance

Parameter	Min.	Typical	Max.	Unit
Storage Temp. Range	-40	-	85	°C
Standard Frequency	12~80			MHz
Level of Drive	-	10	100	μW
Shunt Capacitance(Co)	-	-	3.5	pF
Insulation Resistance	500MΩ @DC100V	-	-	
Aging	±3.0			ppm/year

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

## Equivalent Series Resistance (ESR)

Type Frequency	Mode	ESR
12MHz ≤ Freq. ≤ 15MHz	Fund	180Ω
16MHz < Freq. ≤ 20MHz	Fund	150Ω
21MHz < Freq. ≤ 30MHz	Fund	100Ω
31MHz < Freq. ≤ 80MHz	Fund	60Ω

## Freq. Stability vs Temp. Range

Temp.	PPM		
	±10	±15	±20
-10 ~ +60°C	△	○	○
-20 ~ +70°C	X	○	○
-40 ~ +85°C	X	△	○

\*○:Standard △:Available(case by case) X:Not available

## DIMENSION (Unit: mm) SOLDER PAD LAYOUT (mm)

