

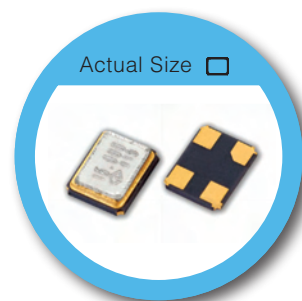
3.2 x 2.5 mm SMD Crystal – XX Type

FEATURE

- Typical 3.2 x 2.5 x 0.7 mm ultra thin ceramic package.
- 8mm width Tape & Reel package for automatic assembly.
- Tight tolerance 10 ppm available.
- Packing: Tape & Reel, 3000pcs per Reel.

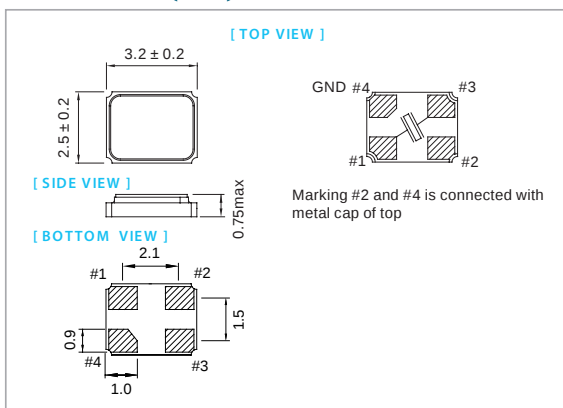
TYPICAL APPLICATION

- Bluetooth, Mobile Phone, GPS
- Wireless LAN, WiMAX
- Hard Disk

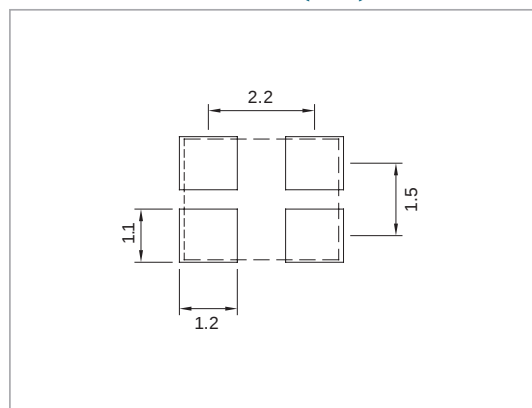


RoHS Compliant Standard

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	Min.	Typical	Max.	Unit
Storage Temp. Range	-55	-	125	°C
Standard Frequency	19.5, 16, 24, 26			MHz
Level of Drive	-	10	100	μw
Shunt Capacitance (Co)	-	-	3.0	pF
Insulation Resistance	500 MΩ @ DC100V	-	-	
Aging	±1.0			ppm / year

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

EQUIVALENT SERIES RESISTANCE (E.S.R)

TYPE FREQUENCY	MODE	E.S.R
12 MHz ≤ Freq. ≤ 13 MHz	A1	150Ω
13 MHz < Freq. ≤ 19.5 MHz	A1	80Ω
19.5 MHz < Freq. ≤ 27 MHz	A1	60Ω
27 MHz < Freq. ≤ 54 MHz	A1	50Ω

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C) \ ppm	±5	±10	±15
-10 ~ +60	△	○	○
-20 ~ +70	×	○	○
-40 ~ +85	×	×	○

* ○: Available △: Conditional ×: Not available