

# 5.0 x 3.2 mm SMD Crystal – XV Type

### **FEATURE**

- Typical  $5.0 \times 3.2 \times 0.9$  mm ceramic SMD package.
- 12 mm width Tape & Reel package for automatic assembly.
- Tight tolerance 10 ppm available.
- Packing: Tape & Reel, 1000/2000/3000/5000pcs per Reel.

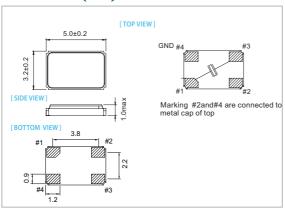
# Actual Size

**RoHS Compliant Standard** 

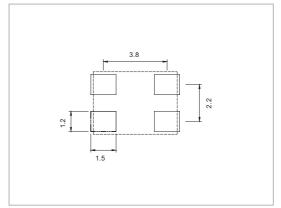
## **TYPICAL APPLICATION**

- Bluetooth, GPS
- Display, TV(FPD/FTF LCD)
- Computer Peripherals

## **DIMENSION (mm)**



### **SOLDER PAD LAYOUT (mm)**



### **ELECTRICAL SPECIFICATION**

Parameter	Min.	Typical	Max.	Unit
Storage Temp. Range	-55	-	125	°C
Level of Drive	-	10	300	μw
Shunt Capacitance (Co)	-	-	7.0	pF
Insulation Resistance	500 MΩ@ 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 (E.S.R)**

TYPE FREQUENCY	MODE	E.S.R
11 MHz ≦ Freq. < 12 MHz	A1	65Ω
12 MHz ≦ Freq. < 13 MHz	A1	60Ω
13 MHz ≦ Freq. < 16 MHz	A1	55Ω
16 MHz ≦ Freq. < 24 MHz	A1	50Ω
24 MHz ≦ Freq. < 48 MHz	A1	40Ω 45Ω
48 MHz ≦ Freq. < 53.125 MHz	A1	
Freq. = 80 MHz	А3	60Ω

## FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	±5	±10	±15	±20
-10 ~ +60	Δ	0	0	0
-20 ~ +70	×	0	0	0
-40 ~ +85	×	×		0

<sup>\*</sup>  $\bigcirc$ : Available  $\triangle$ :Conditional X: Not available