

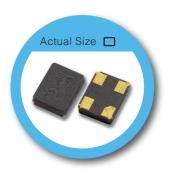
3.2 x 2.5 mm Glass Seal SMD Crystal – X2 Type

FEATURE

- Typical $3.2 \times 2.5 \times 0.8$ mm full ceramic SMD package.
- 8 mm width Tape & Reel package for automatic assembly.
- Packing: Tape & Reel, 1000/2000/3000 pcs per Reel.

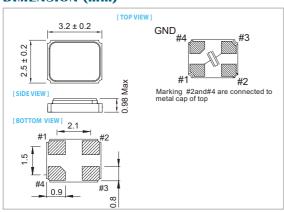
TYPICAL APPLICATION

- PDA, DSC
- DECT/ WDCT
- Wimax / WLAN

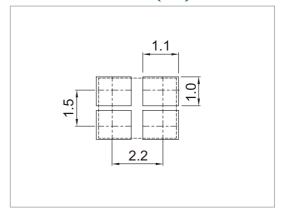


RoHS Compliant Standard

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	Min.	Typical	Max.	Unit
Storage Temp. Range	-55	-	125	°C
Level of Drive	-	10	100	μw
Shunt Capacitance (Co)	-	-	7.0	pF
Insulation Resistance	500 MΩ@ DC100V			
Aging		±5.0		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	<170Ω
13 MHz < Freq. < 19.5 MHz	A1	<100Ω
19.5 MHz ≦ Freq. < 27 MHz	A1	< 70 Ω
27 MHz ≦ Freq. < 48 MHz	A1	< 60 Ω

FREQ. STABILITY vs. TEMP. RANGE

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

^{* ○:} Available △:Conditional X: Not available