

13.0 x 4.85 mm Crystal - XJ Type

FEATURE

- Typical 13.0 x 4.85 x 4.2 mm metal can SMD package..
- 24mm width Tape & Reel package for automatic assembly.
- Packing: Tape & Reel, standard 1000 pcs per Reel.

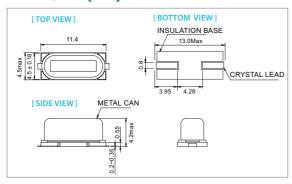
TYPICAL APPLICATION

- Automotive
- Bluetooth, Wireless
- Computers, Modems, Communications
- Set-top Box, DECT/WDCT

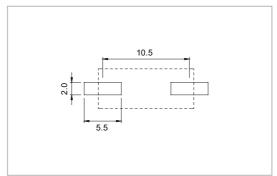


RoHS Compliant Standard

DIMENSION (mm)



SOLDER PAD LAYOUT (mm)



ELECTRICAL SPECIFICATION

Parameter	Min.	Typical	Max.	Unit	
Storage Temp. Range	-55	-	125	°C	
Level of Drive	-	10	800	μw	
Shunt Capacitance (Co)	-	-	7.0	pF	
Insulation Resistance	500 MΩ@ DC100V	-	-		
Aging	First year: ±5.0 ; Sub year: ±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
Freq. ≤ 4 MHz	A1	140Ω
4 MHz < Freq. < 5 MHz	A1	120Ω
5 MHz ≦ Freq. < 7 MHz	A1	80Ω
7 MHz ≦ Freq. < 9 MHz	A1	45Ω
9 MHz ≦ Freq. < 13 MHz	A1	40Ω
13 MHz ≦ Freq. < 16 MHz	A1	35Ω
16 MHz ≦ Freq. < 20 MHz	A1	30Ω
20 MHz ≦ Freq. < 30 MHz	A1	25Ω
30 MHz ≦ Freq. < 36 MHz	A1	25Ω
30 MHz ≦ Freq. < 36 MHz	A3	Ω08
36 MHz ≦ Freq. < 80 MHz	A3	Ω08

FREQ. STABILITY vs. LOAD CAPACITANCE

Load Capacitance ppm	±5	±10	±15	±20	±30
8pF	×	×	\triangle	0	0
10pF	×	×	\triangle	0	0
12pF	×		0	0	0
16pF	×		0	0	0
Series	Δ	0	Ó	Ó	Ó

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

FREQ. STABILITY vs. TEMP. RANGE

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

^{*} \bigcirc : Available \triangle :Conditional X: Not available