

1. Device Name

Crystal Resonator

2. Model Name

DSX321SH

3. Nominal Frequency

12.000

MHz

4. Device Summary

Mass

0.019

g max.

Pb-free

Yes

RoHS Compliant

MSL

=

1

5. Electrical Characteristics

Item	Limits			unit	Conditions	Notes
	min.	Typ.	max.			
Mode of Vibration	AT-cut fundamental					
Load Capacitance	-	12	-	pF		
Drive Level	-	10	200	uW		
Series Resistance	-	-	80	Ω		
Frequency Tolerance	-10	-	10	ppm	T <sub>A</sub> = 25 °C	
Frequency Characteristics Over Temperature	-20	-	20	ppm	T <sub>A</sub> = -40 ~ 85 °C	
Operating Temperature Range	-40	-	85	°C		
Storage Temperature Range	-40	-	85	°C		
Shunt Capacitance(C0)	-	-	2	pF		
Insulation Resistance	500	-	-	MΩ		

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6. DIMENSIONS AND MARKING

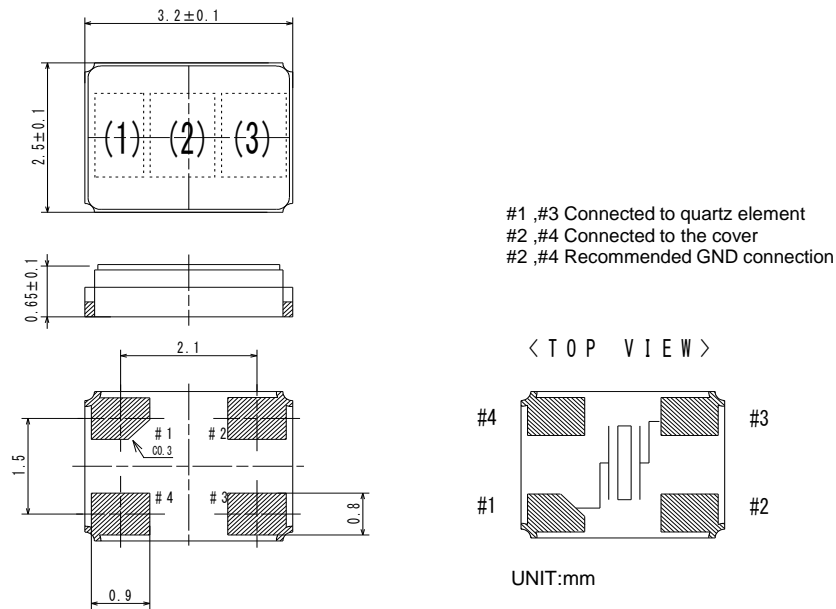


Figure-1

Logo(1) and Nominal Frequency (2) should be printed as follows by producing district

Made in THAILAND ⇒ Logo :  $\overline{D}$  , Frequency: 12 : Top Bar with D  
Made in CHINA ⇒ Logo : D , Frequency:  $\overline{12}$  : Top Bar with 12

\* Depending on the detailed application, some production areas may not be available. Please note.

Nominal Frequency ( 2 ) = Mark two digits from upper decimal point  
(ex. 12.000 MHz ----> 12 )

Manufacturing lot No.( 3 )

Year : The last digit of the year  
week : We gave the sequence of week numbers 01(first week) for production date.  
there are starting from 1st of Jan. However, add '0' figure to the first week during the nine weeks.  
The week means are from Sunday to Saturday.  
(ex. 2025/8/22 ----> 534 )

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