

- 1. Device Name           Crystal Resonator
- 2. Model Name           DSX211S
- 3. Nominal Frequency   96.000 MHz
- 4. Device Summary
  - 4.1 Mass                 0.005g max.
  - 4.2 RoHS Confirmation   Yes
  - 4.3 Pb free             Yes

5. Absolute Maximum Ratings

	Item	Rating	unit
1	Storage Temperature Range	-40~+105	°C

6. Recommended Operating Conditions

	Item	min.	typ.	max.	unit
1	Operating Temperature Range	-40	-	+105	°C

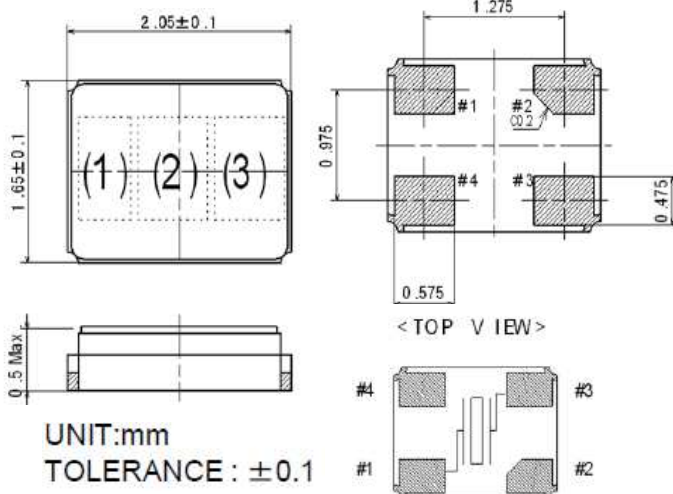
7. Electrical Characteristics

7.1 Crystal Resonator

	Item	Limits			unit	Conditions	Notes
		min.	Typ.	max.			
1	Mode of Vibration	-	AT-cut fundamental	-			
2	Initial Frequency Tolerance	-12	-	+12	ppm	T <sub>A</sub> =+25°C	
3	Tolerance Over Temperature	-16	-	+16	ppm	T <sub>A</sub> =-40~+105°C	
4	Frequency Perturbation				ppm	T <sub>A</sub> =-40~+105°C	
5	Aging				ppm	5 years	
6	Frequency Drift After Reflow	-2	-	+2	ppm	After two reflows	
7	Equivalent Series Resistance	8	-	20	Ω		
8	Spurious mode series Resistance	1100	-	-	Ω	+/-0.7MHz	
9	Motional Inductance	0.5	1	1.2	mH		
10	Motional Capacitance	2	2.5	4.2	fF		
11	Shunt Capacitance	0.5	0.7	1.0	pF		
12	Load Capacitance	-	9.9	-	pF	IEC standard 60444-8 Using Agilent 41901A Pi Circuit Saunders(S&A) Network Analyzer 250B πnetwork+ Network Analyzer E5100A	
		-	9.9	-			
		-	8.0	-			
13	Drive Level	0.01	10	400	uW		
14	Insulation Resistance	500	-	-	MΩ		

8. Outline, Pin Connections

Outline



Marking is Laser Marking:

\*Marking should be printed as following:

Logo, Nominal Frequency, Manufactured year & month

\*Nominal frequency = Mark two digits from upper

( ex. 96.000MHz--- > 96 )

\*Manufacturing Lot No.

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. add '0' figure to the first week during the nine weeks.

The week means are from Sunday to Saturday.

( ex. 2017/01/05 --- > 701 )

( ex. 2017/01/25 --- > 704 )

TITLE DSX211S SPECIFICATION		Remark		
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