

Customer Code: \_\_\_\_\_

# DATASHEET

DAPU P/N: DPX3212M000010A0

| DAPU            |         |          | Customer Approval      |
|-----------------|---------|----------|------------------------|
| Drew            | Audited | Approved | Stamp, please! Thanks! |
| Jack            | David   | William  |                        |
| Date: 2022.3.20 |         |          |                        |

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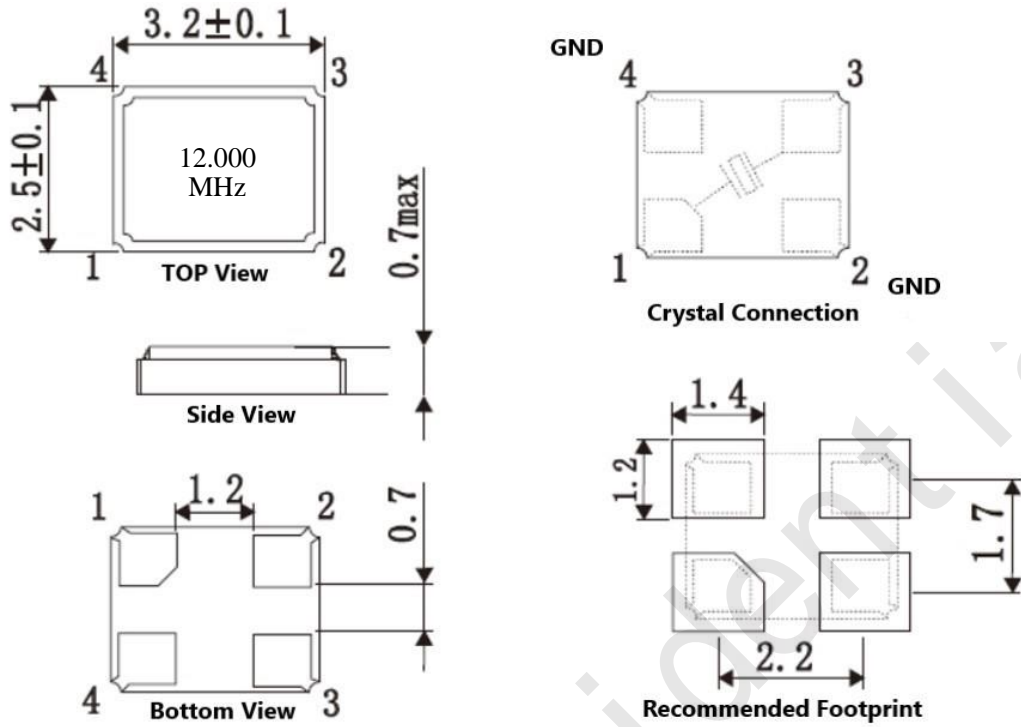


## 1、Electrical Parameters

| MODEL: DPX3212M000012A0 |                              |      |                  |      |      |                  |                                  |
|-------------------------|------------------------------|------|------------------|------|------|------------------|----------------------------------|
| No.                     | Parameters                   | SYM. | Electrical Spec. |      |      |                  | Notes                            |
|                         |                              |      | Min.             | Typ. | Max. | Units            |                                  |
| 1                       | Nominal Frequency            | FL   | 12.00            |      |      | MHz              |                                  |
| 2                       | Oscillation Mode             | -    | Fundamental      |      |      |                  |                                  |
| 3                       | Load Capacitance             | CL   | 10               |      |      | pF               |                                  |
| 4                       | Frequency Tolerance          | -    | -10              |      | +10  | $\times 10^{-6}$ | At 25°C                          |
| 5                       | Frequency Stability          | -    | -30              |      | +30  | $\times 10^{-6}$ | Over Operating Temperature Range |
| 6                       | Operating Temperature        | Topr | -40              | ~    | +85  | °C               |                                  |
| 7                       | Storage Temperature          | Tstg | -55              |      | +125 | °C               |                                  |
| 8                       | Drive Level                  | DL   | 1                | 100  | 300  | $\mu$ W          |                                  |
| 9                       | Equivalent Series Resistance | ESR  |                  |      | 80   | $\Omega$         |                                  |
| 10                      | Shunt Capacitance            | -    |                  |      | 5.0  | pF               |                                  |
| 11                      | Insulation Resistance        | IR   | 500              |      |      | M $\Omega$       | At DC 100V                       |
| 12                      | Aging                        | -    | -3               |      | +3   | $\times 10^{-6}$ | First year at 25°C               |

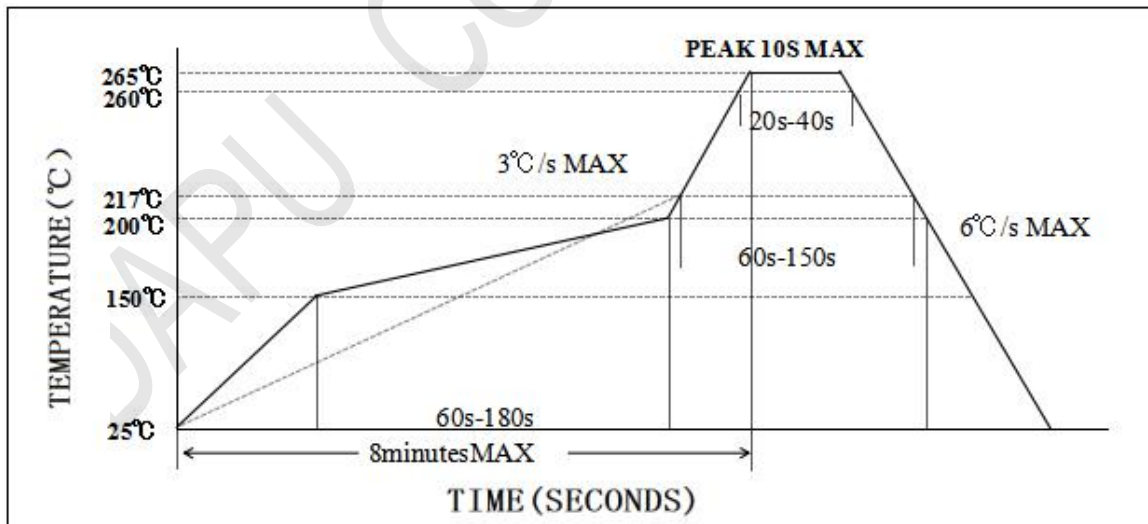


## 2、Mechanical Structure(mm)



**Note1:** Tolerance  $\pm 0.2\text{mm}$  without mark

## 3、Reflow Soldering Curve(RoHS)





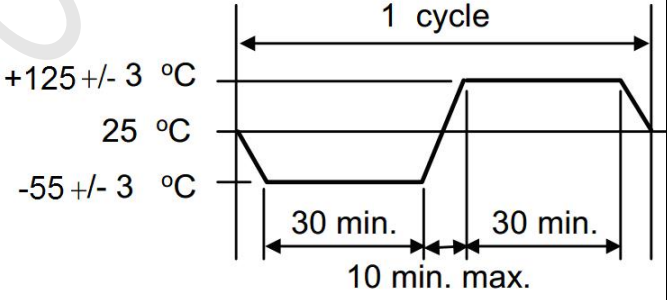
### 4、 Package: Tape & Reel (mm)



|    |           |
|----|-----------|
| L1 | 2.00±0.1  |
| L2 | 4.00±0.1  |
| L3 | 4.00±0.1  |
| D0 | 1.50±0.1  |
| D1 | 1.00±0.1  |
| W0 | 8.30±0.2  |
| W1 | 1.75±0.1  |
| W2 | 3.50±0.1  |
| W3 | 8.00±0.1  |
| A0 | 2.72±0.1  |
| B0 | 3.46±0.1  |
| K0 | 1.00±0.1  |
| T  | 0.25±0.05 |



## 5、 Reliability Test Specification

| NO. | Test Items                             | Test Standard | Test Condition  | Specifications  |
|-----|--|---------------|---|---|
| 1   | Drop test                              | GB/T2423.8    | Drop from 150cm height on 3cm hard wooden board for 3 times.  | Electrical performance meets specification requirements |
| 2   | Mechanical shock                       | GB/T2423.5    | Peak: 100g; Waveform: Half-sine;<br>Velocity Change: 1000m/s <sup>2</sup> ; Duration: 0.5ms;<br>3 times/direction, Direction: +X, -X, +Y, -Y, +Z, -Z. |   |
| 3   | Vibration                              | GB/T2423.10   | Frequency: 10~2000Hz;<br>Vibration:20min, 1.52mm;<br>Direction: X, Y, Z;<br>Duration: 2 hours/direction.  |   |
| 4   | Solderability                          | IEC60068-2-58 | Solder bath temperature:245±5°C;<br>Dwell time:3±0.5 seconds;<br>Solder: 100% tin.  |   |
| 5   | Resistance to soldering heat           | IEC60068-2-58 | Solder temperature 260±5°C;<br>Immersion time:10±1S;<br>Solder bath composition:100% tin.   |   |
| 6   | High temperature storage               | GB/T2423.2    | Temperature: 125°C±2°C;<br>Duration: 500±12hours.   |   |
| 7   | Low temperature storage                | GB/T2423.1    | Temperature: -40°C±2°C;<br>Duration: 500±12hours.   |   |
| 8   | Temperature Shock                      | GB/T2423.22   | Do 10 cycles at the following temperature<br>                     |   |
| 9   | High temperature high humidity storage | GB/T2423.3    | Temperature: 85°C±3°C;<br>Humidity: 85%;<br>Duration: 500hours.   |   |