

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

# DATASHEET

DAPU P/N: DPX2126M000006AA

| DAPU             |         |          | Customer Approval      |
|------------------|---------|----------|------------------------|
| Drew             | Audited | Approved | Stamp, please! Thanks! |
| Jack             | David   | William  |                        |
| Date: 2022.06.07 |         |          |                        |

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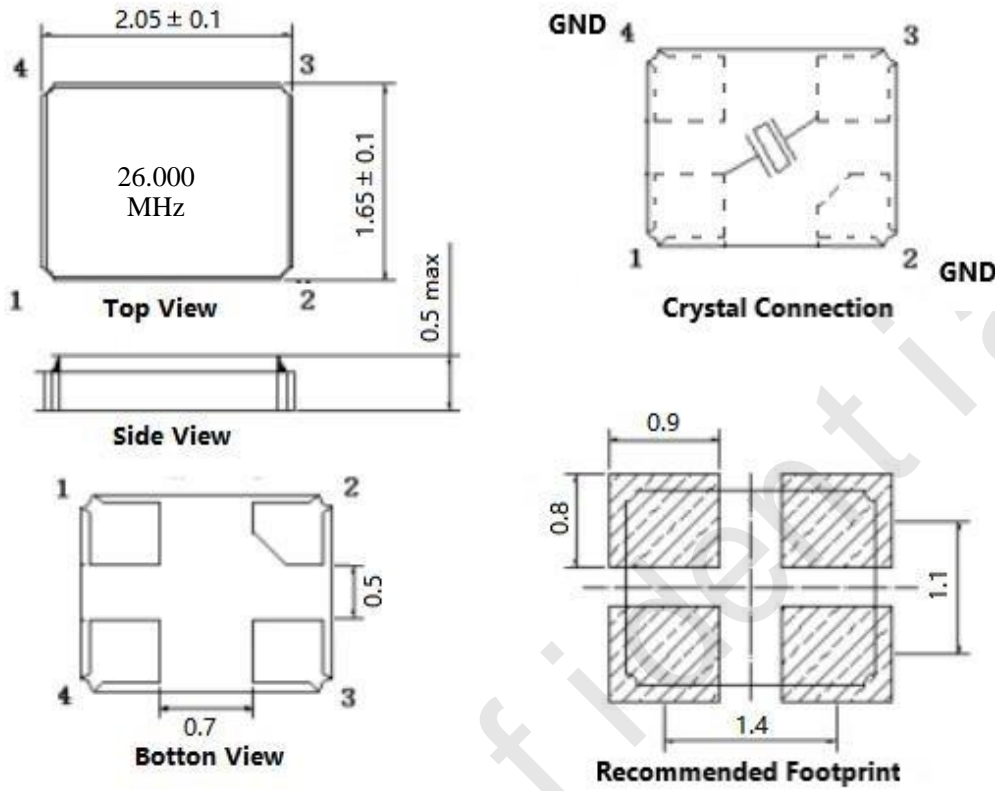
## 1、Electrical Parameters

**MODEL: DPX2126M000006AA****For Automotive**

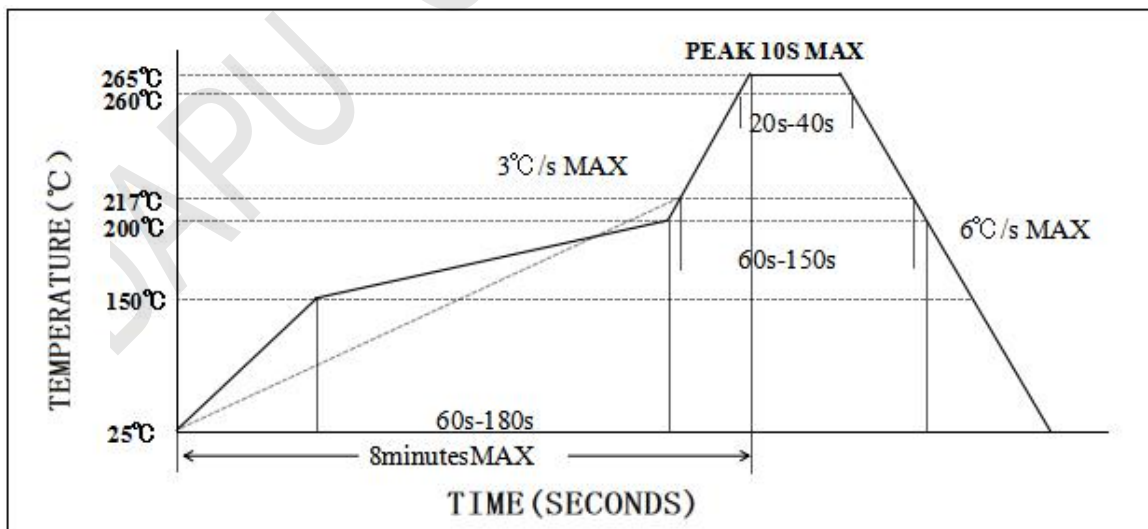
| No. | Parameters                   | SYM. | Electrical Spec.     |      |      |                  | Notes                                             |
|-----|------------------------------|------|----------------------|------|------|------------------|---------------------------------------------------|
|     |                              |      | Min.                 | Typ. | Max. | Units            |                                                   |
| 1   | Standard                     | -    | Conforms to AEC-Q200 |      |      |                  |                                                   |
| 2   | Nominal Frequency            | FL   | 26.00                |      |      | MHz              |                                                   |
| 3   | Oscillation Mode             | -    | Fundamental          |      |      |                  |                                                   |
| 4   | Load Capacitance             | CL   | 6                    |      |      | pF               |                                                   |
| 5   | Frequency Tolerance          | -    | -10                  |      | +10  | $\times 10^{-6}$ | At 25°C                                           |
| 6   | Frequency Stability          | -    | -35                  |      | +35  | $\times 10^{-6}$ | Over Operating Temperature Range (Reference 25°C) |
| 7   | Operating Temperature        | Topr | -40                  | ~    | +125 | °C               |                                                   |
| 8   | Storage Temperature          | Tstg | -55                  |      | +125 | °C               |                                                   |
| 9   | Drive Level                  | DL   | 1                    | 10   | 100  | $\mu$ W          |                                                   |
| 10  | Equivalent Series Resistance | ESR  |                      |      | 80   | $\Omega$         |                                                   |
| 11  | Shunt Capacitance            | -    |                      |      | 3.0  | pF               |                                                   |
| 12  | Insulation Resistance        | IR   | 500                  |      |      | M $\Omega$       | At DC 100V                                        |
| 13  | Aging                        | -    | -2                   |      | +2   | $\times 10^{-6}$ | First year at 25°C                                |



## 2、Mechanical Structure(mm)



## 3、Reflow Soldering Curve(RoHS)





#### 4、 Package: Tape & Reel (mm)

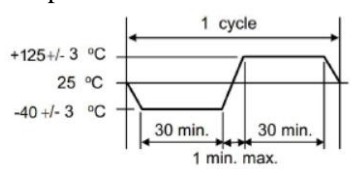
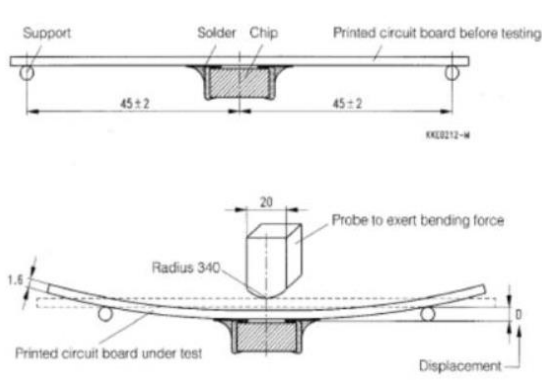


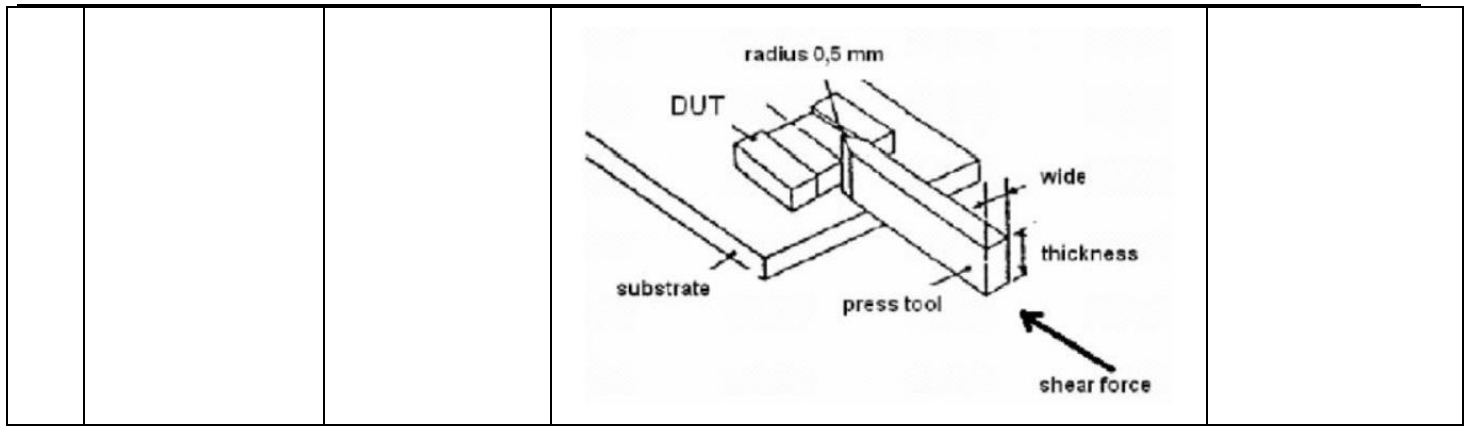
|    |           |
|----|-----------|
| L1 | 2.00±0.1  |
| L2 | 4.00±0.1  |
| L3 | 4.00±0.1  |
| D0 | 1.50±0.1  |
| D1 | 0.6±0.1   |
| W0 | 8.50±0.2  |
| W1 | 1.75±0.1  |
| W2 | 3.50±0.1  |
| W3 | 8.00±0.1  |
| A0 | 1.85±0.1  |
| B0 | 2.25±0.1  |
| K0 | 0.65±0.1  |
| T  | 0.25±0.05 |



## 5、Reliability Test Specification

### 5.1 Reliability Test (Reference AEC-Q200)

| NO. | Test Items                   | Test Standard          | Test Condition                                                                                                                                                                                      | Standard |
|-----|------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1   | High temperature storage     | MIL-STD-202 Method 108 | The crystal was placed at a temperature of $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 1000 hours.                                                                                              | A、C、D    |
| 2   | Temperature cycle            | JESD22 Method JA-104   | Crystal do 1000 cycles according to the table below temperature.<br>                                               | A、C、D    |
| 3   | Temperature and humidity     | MIL-STD-202 Method 103 | The crystal is placed for 1000 hours at a temperature of $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and a humidity of 85% Time.                                                                     | A、C、D    |
| 5   | shock                        | MIL-STD-202 Method 213 | shock method:half sine wave 100G<br>Duration:6ms<br>Direction:X, Y, Z Axial, 6 faces, 18 shocks in total.                                                                                           | A、C      |
| 6   | Vibration                    | MIL-STD-202 Method 204 | Vibration frequency:10~2000Hz<br>Vibration amplitude:1.5mm<br>Scan time:20 min<br>Directions:X, Y, Z (12 cycles in each of the three directions)                                                    | A、C      |
| 7   | Resistance to soldering heat | MIL-STD-202 Method 210 | Reflow soldering:<br>Peak temperature: $260 \pm 5^{\circ}\text{C}$ ,<br>time: $10\text{s} \pm 1\text{s}$ .                                                                                          | A、C、D    |
| 8   | Solderability                | J-STD-002              | Soldering temperature: $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$<br>Immersion time:5 seconds $\pm 0.5$ seconds<br>Flux:Rosin Resin Methanol Solvent ( 1 : 4 )                                     | E        |
| 9   | Panel bending                | AEC-Q200-005           | Apply pressure to the center of the product until it bends to a minimum of 2mm and keep $60 \pm 5$ seconds.<br> | A、C      |
| 10  | Terminal strength            | AEC-Q200-006           | Apply a force of 1.8Kg laterally for $60 \pm 1$ seconds.                                                                                                                                            | AC       |



5.2 Test judgment

| Specification |                                                                                            |
|---------------|--------------------------------------------------------------------------------------------|
| A             | Frequency Variation: Within $\pm 5$ ppm or meet customer specifications.                   |
| B             | Frequency Variation: Within $\pm 10$ ppm or meet customer specifications.                  |
| C             | Resonant resistance (RR) variation: within $\pm 20\%$ or $5\Omega$ (whichever is greater). |
| D             | Test after $24 \pm 2$ hours under normal temperature and humidity.                         |
| E             | At least 95% of the immersed end is covered with new welding material.                     |

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