

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

# DATASHEET

DAPU P/N:     **T32-Q563-52.00MHz**    

Customer P/N: \_\_\_\_\_

| DAPU             |         |          | Customer Approval      |
|------------------|---------|----------|------------------------|
| Drew             | Audited | Approved | Stamp, please! Thanks! |
|                  |         |          |                        |
| Date: 2020.11.02 |         |          |                        |

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## 1. Electrical Parameters

| MODEL: T32-Q563-52.00MHz        |   |                   |      |      |                  |   |
|---------------------------------|---|-------------------|------|------|------------------|---|
| Item                            | Description   | Parameters        |      |      | Unit             | Test Condition  |
|                                 |   | Min.              | Typ. | Max. |                  |   |
| Output                          | Frequency   | 52.00             |      |      | MHz              |   |
|                                 | Output Waveform                                     | Clipped Sine Wave |      |      |                  |   |
|                                 | Vp-p  | 0.8               |      |      | V                |   |
|                                 | Load  | 10KΩ//10pF        |      |      |                  |   |
|                                 | Start Time  |                   |      | 2.0  | ms               |   |
| Frequency Stabilities           | Frequency Tolerance vs. Operating Temperature Range | -1                |      | +1   | $\times 10^{-6}$ | T <sub>A</sub> varied from -40°C to 85°C, measurement referenced to frequency observed with T <sub>A</sub> =25°C. |
|                                 | Nominal Frequency Tolerance                         | -1.5              |      | +1.5 | $\times 10^{-6}$ | Measurement referenced to frequency observed with T <sub>A</sub> =25°C, 1 hour after 2 times reflow.              |
|                                 | Frequency Tolerance vs. Supply Voltage              | -0.2              |      | +0.2 | $\times 10^{-6}$ | measurement referenced to frequency observed TA=25°C, supply voltage varied ±5%.                                  |
|                                 | Frequency Tolerance vs. Load                        | -0.2              |      | +0.2 | $\times 10^{-6}$ | ±10% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C.                          |
|                                 | Aging Tolerance 1 Year                              | -1                |      | +1   | $\times 10^{-6}$ | First year @25°C  |
| Power Supply                    | Operating Current                                   |                   |      | 2    | mA               | At maximum supply voltage.  |
|                                 | Supply Voltage                                      | 2.85              | 3.0  | 3.15 | V                |   |
| Phase Noise                     | Phase Noise   |                   |      | -125 | dBc/Hz           | 1KHz  |
| Voltage Control Characteristics | Frequency Tuning Range                              | -15               |      | -9   | $\times 10^{-6}$ | V <sub>c</sub> =0.5V. measurement referenced to V <sub>c</sub> =1.5V  |
|                                 |   | -1.5              |      | +1.5 | $\times 10^{-6}$ | V <sub>c</sub> =1.5V. measurement referenced to exactly 52.00MHz  |
|                                 |   | +9                |      | +15  | $\times 10^{-6}$ | V <sub>c</sub> =2.5. measurement referenced to V <sub>c</sub> =1.5V   |
|                                 | Linearity   |                   |      | 10   | %                |   |
|                                 | Slope   | Positive          |      |      |                  |   |
|                                 | Input Impedance                                     | 500               |      |      | KΩ               |   |

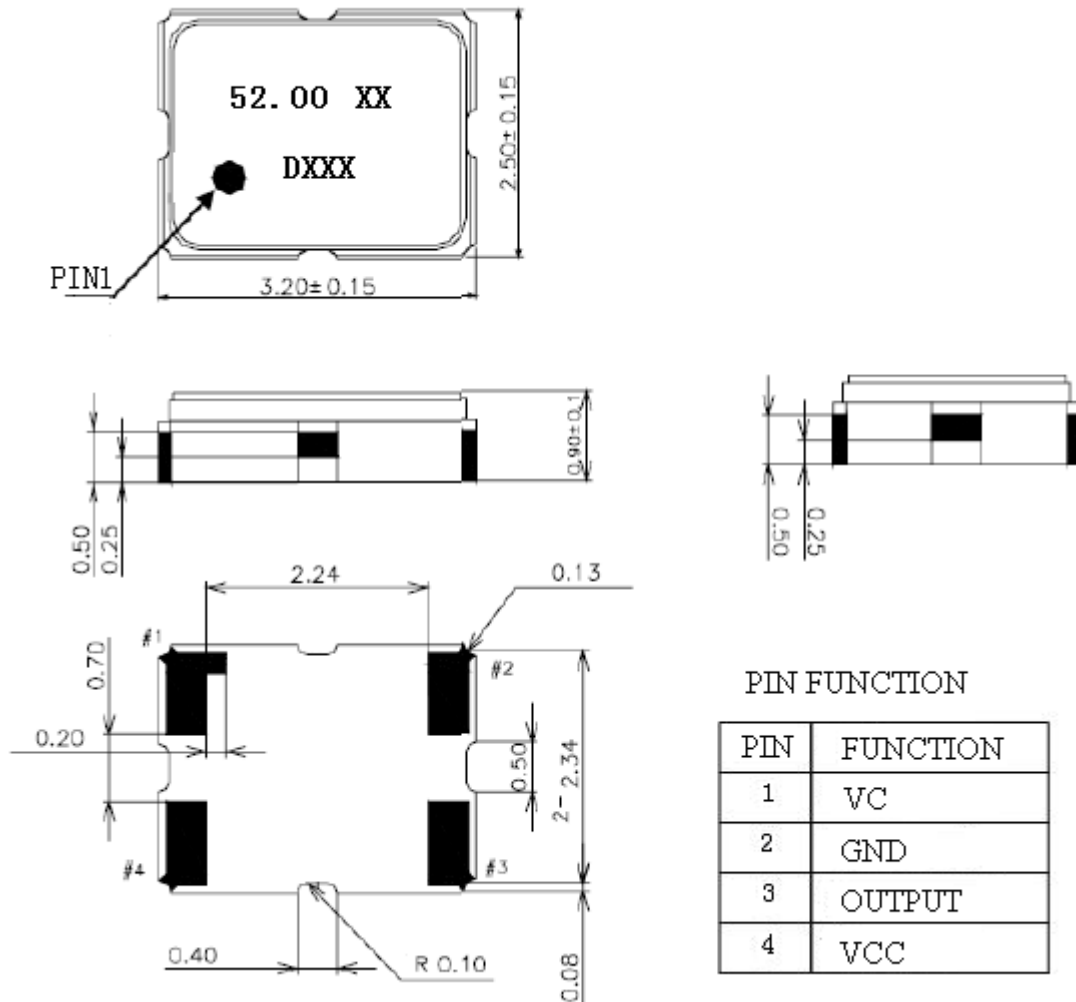


|                          |  |   |  |     |    |  |
|--------------------------|--|---|--|-----|----|--|
| Environmental Conditions | Operable Temperature   | -40   |  | +85 | °C |  |
|                          | Storage Temperature  | -40   |  | +85 | °C |  |
|                          | ESD Level  | Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.  |  |     |    |  |
|                          |  | Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.   |  |     |    |  |
|                          | Moisture Sensitivity Level   | Not humidity sensitive.   |  |     |    |  |
|                          | Vibration  | Test Condition: 0.75mm ;acceleration:10g;10Hz~500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X, Y, Z), IEC 68-2-06 Test Fc. |  |     |    |  |
| Shock                    | 50g; 11ms; half sine wave (3 times for each 3 directions X, Y, Z), IEC 68-2-27 Test Ea/Severity 50A. |   |  |     |    |  |
| Full Package Storage     | Relative humidity (%)  | 20%~70%   |  |     |    |  |
|                          | Temperature (°C)   | -10~35°C  |  |     |    |  |

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## 2. Mechanical Structure(mm)



**Note1:** Tolerance  $\pm 0.2$ mm without mark

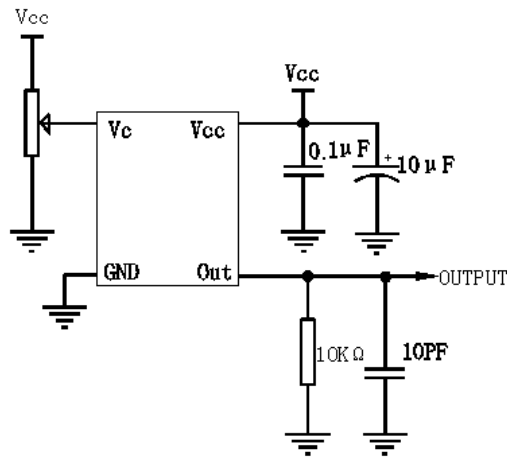
**Note2:** The first two XX represent the model code,

The latter X represents the year, and the last two XX represent the week.

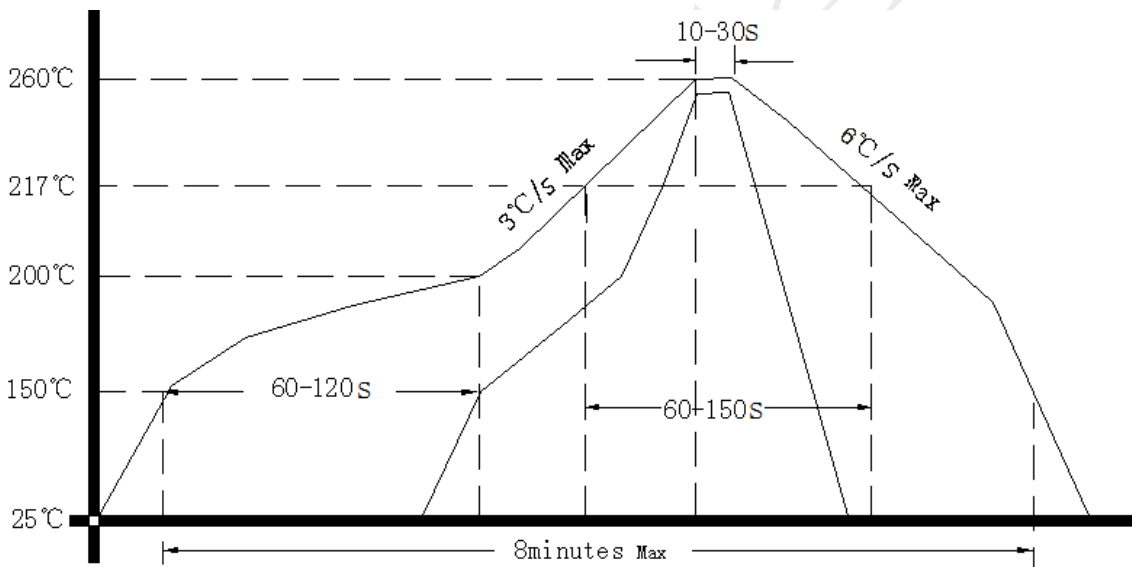
**Note3:** Referential weight 0.02g



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: Tape & Reel (mm)

