

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

# DATASHEET

DAPU P/N: **T75B-J519-40.00MHz-C1200**

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

| DAPU             |         |          | Customer Approval      |
|------------------|---------|----------|------------------------|
| Drew             | Audited | Approved | Stamp, please! Thanks! |
|                  |         |          |                        |
| Date: 2024.11.19 |         |          |                        |

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### Table of amendment

| Version | Revision contents | Prepared by  | Revised date |
|---------|-------------------|--------------|--------------|
| 1.0     | The first issued  | <i>Amway</i> | 2024.11.19   |
|         |                   |              |              |
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DAPU Confidential



## 1. Electrical Parameters

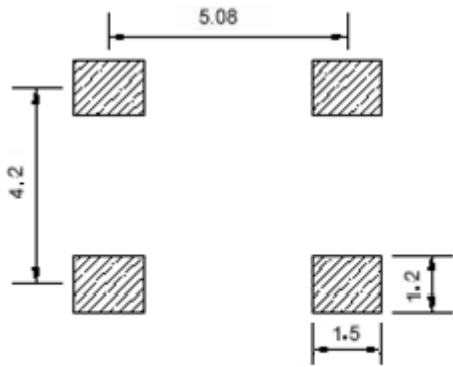
| MODEL: T75B-J519-40.00MHz-C1200 |   |                   |      |       |                  |  |
|---------------------------------|---|-------------------|------|-------|------------------|--|
| Item                            | Description   | Parameters        |      |       | Unit             | Test Condition   |
|                                 |   | Min.              | Typ. | Max.  |                  |  |
| Output                          | Frequency   | 40.00             |      |       | MHz              |  |
|                                 | Output Waveform                                     | Clipped Sine Wave |      |       |                  |  |
|                                 | Vp-p  | 0.6               |      |       | V                |  |
|                                 | Load  | 10KΩ//10pF        |      |       |                  |  |
| Frequency Stabilities           | Frequency Tolerance vs. Operating Temperature Range | -0.1              |      | +0.1  | $\times 10^{-6}$ | $T_A$ varied from -40 to 85°C, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$ , $V_{cc}=3.3V$ , $O_{load}=10K\Omega//10pF$ , temperature variable speed less than 2°C per minute. |
|                                 | Initial Frequency Tolerance                         | -1                |      | +1    | $\times 10^{-6}$ | Measurement referenced to frequency observed with $T_A=25^\circ C$ , $V_{cc}=3.3V$ within 30 days after ex-works.  |
|                                 | Frequency Tolerance vs. Supply Voltage              | -0.1              |      | +0.1  | $\times 10^{-6}$ | measurement referenced to frequency observed $T_A=25^\circ C$ , $V_{cc}$ varied from 3.13V to 3.47V, and $O_{Load}=10K\Omega//10pF$ .  |
|                                 | Frequency Tolerance vs. Load                        | -0.1              |      | +0.1  | $\times 10^{-6}$ | 5% load change measurement referenced to frequency observed with $T_A=25^\circ C$ , $V_{cc}=3.3V$ , $O_{Load}=10K\Omega//10pF$ .   |
|                                 | Aging Tolerance Per Day                             | -0.02             |      | +0.02 | $\times 10^{-6}$ | $T_A=25^\circ C$ , $V_{cc}=3.3V$ , and after 1h of operation.  |
|                                 | Aging Tolerance 1 Year                              | -1                |      | +1    | $\times 10^{-6}$ |  |
|                                 | Aging Tolerance 10 Years                            | -2                |      | +2    | $\times 10^{-6}$ |  |
|                                 | Aging Tolerance 20 Years                            | -4.6              |      | +4.6  | $\times 10^{-6}$ |  |
| Power Supply                    | Current Consumption                                 |                   |      | 10    | mA               | @25°C, $V_{cc}=3.3V$ , $O_{load}=10K\Omega//10pF$ .  |
|                                 | Supply Voltage                                      | 3.13              | 3.3  | 3.47  | V                |  |



|                             |  |  |      |      |    |        |
|-----------------------------|--|--|------|------|----|--------|
| Phase Noise                 | Phase Noise<br>@25°C   |  | -70  |      |    | 10Hz   |
|                             |  |  | -105 |      |    | 100Hz  |
|                             |  |  | -128 |      |    | 1KHz   |
|                             |  |  | -145 |      |    | 10KHz  |
|                             |  |  | -150 |      |    | 100KHz |
| Environmental<br>Conditions | Operable Temperature   | -40  |      | +85  | °C |        |
|                             | Storage Temperature  | -55  |      | +105 | °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<br>Level  | Level 2.   |      |      |    |        |
|                             | Vibration  | Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min,<br>test 2 hour. (3 times for each 3 directions X ,Y , Z) .IEC 68-2-06 Test Fc. |      |      |    |        |
| Shock                       | 100g; 6ms; half sine wave (3 times for each 3 directions X ,Y , Z ),IEC 68-2-27<br>Test Ea/Severity 50A. |  |      |      |    |        |
| Full Package<br>Storage     | Relative humidity (%)  | 20%~70%  |      |      |    |        |
|                             | Temperature (°C)   | -10~35°C   |      |      |    |        |



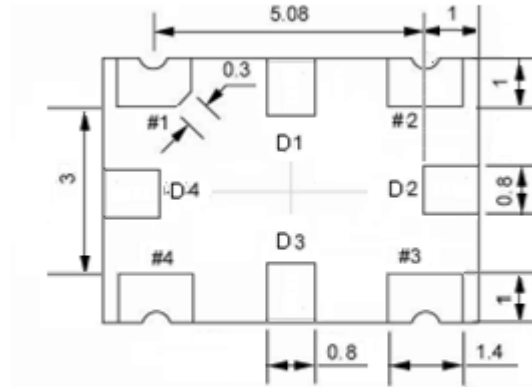
## 2. Mechanical Structure(mm)



Solder pad layout



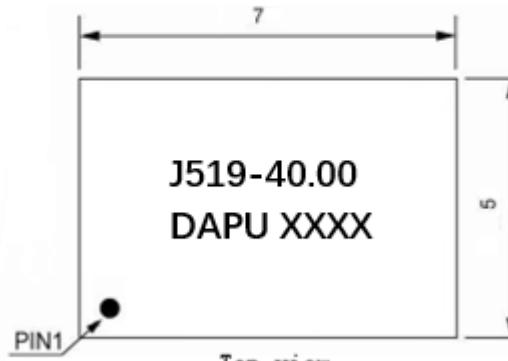
Right view



Bottom view



Side view



Top view

### PIN FUNCTION

| PIN            | NOTATION | FUNCTION       |
|----------------|----------|----------------|
| D1, D2, D3, D4 | NC       | Not Connect    |
| 1              | NC       | Not Connect    |
| 2              | GND      | GND            |
| 3              | OUTPUT   | RF Output      |
| 4              | VCC      | Supply Voltage |

**Note1:** Tolerance  $\pm 0.3\text{mm}$  without mark

**Note2:** The first two xx representative: year

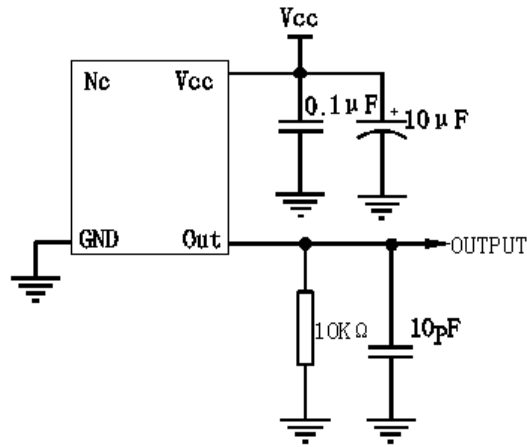
After two xx representative: week

**Note3:** Referential wight 0.2g

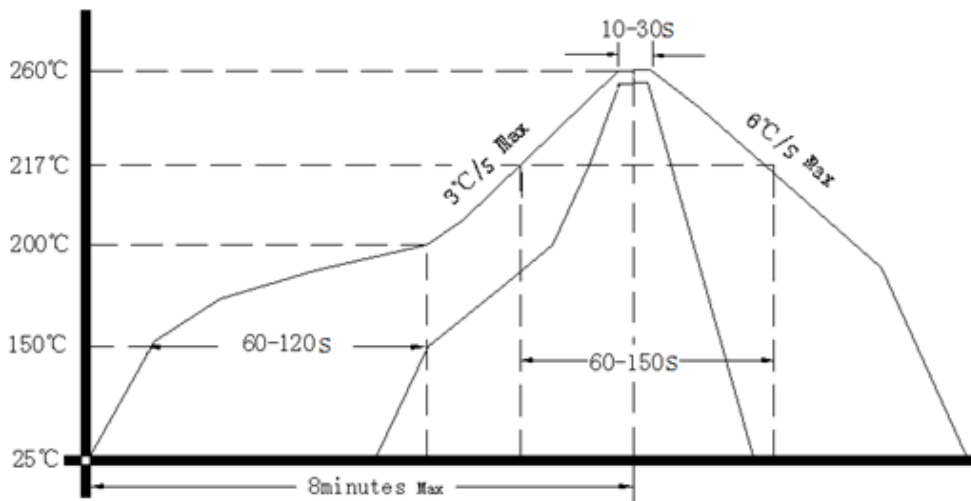
**Note4:** NC is not connect



### 3. Test circuit



### 4. Reflow Soldering Curve (RoHS)



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

