Customer Code : _____

# DATASHEET

DAPU P/N: **T75A-J319-20.00MHz**

Customer P/N: _____

| DAPU | | | Customer Approval |
|---|---|---|---|
| Drew | Audited | Approved | Stamp, please! Thanks! |
| Amway.wei | Carry.Wang | James.Liu | |
| Date: 2015.12.25 | | | |


## Guangdong Dapu Telecom Technology Co.,Ltd

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# Table of amendment

| Version | Revision contents | Prepared by | Revised date |
|---|---|---|---|
| 1.8 | The first issued | Amway | 2011.02.10 |
| 1.9 | 1.Template update<br>2.“Output Low/High Voltage” changed<br>3.“Frequency Tolerance vs. Operating Temperature Range- Test Condition” changed<br>4. “2. Mechanical Structure-Product Height” changed<br>5. “Reflow Soldering Curve-Note” added | Amway | 2015.12.25 |
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## 1. Electrical Parameters

**MODEL: T75A-J319-20.00MHz**

| Item | Description | Parameters | | | Unit | Test Condition |
|---|---|---|---|---|---|---|
| | | Min. | Typ. | Max. | | |
| Output | Frequency | | 20.00 | | MHz | |
| | Output Waveform | | HCMOS | | | |
| | Output Low Voltage | | | 0.33 | V | $V_{cc}$=3.3V, $O_{load}$=15 pF |
| | Output High Voltage | 2.97 | | | V | $V_{cc}$=3.3V, $O_{load}$=15 pF |
| | Duty Cycle | 45 | 50 | 55 | % | @50% |
| | Rise / Fall Time （10%~90%） | | | 5 | ns | @25℃ |
| | Load | | 15 | | pF | |
| Frequency Stabilities | Frequency Tolerance vs. Operating Temperature Range | -0.28 | | +0.28 | $\times 10^{-6}$ | $T_A$ varied from-5℃to 80℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, $V_{cc}$=3.3V, $O_{load}$=15pF, temperature variable speed less than 2℃per minute. |
| | Initial Frequency Tolerance | -1 | | +1 | $\times 10^{-6}$ | Measurement referenced to frequency observed with $T_A$=25℃, $V_{cc}$=3.3V within 30 days after ex-works. |
| | Aging Tolerance Per Day | -0.02 | | +0.02 | $\times 10^{-6}$ | $T_A$=25℃, $V_{cc}$=3.3V, and after 1h of operation. |
| | Aging Tolerance 1 Year | -1 | | +1 | $\times 10^{-6}$ | |
| | Calibration | -4.6 | | +4.6 | $\times 10^{-6}$ | @25℃, Temperature -5℃ to 80℃,supply Voltage 3.3V±5% ,load 15pF±5%,reflow Soldering and ageing 20 years. |
| Power Supply | Current Consumption | | 4 | | mA | @25℃, $V_{cc}$=3.3V, $O_{Load}$=15pF. |
| | Supply Voltage | 3.13 | 3.3 | 3.47 | V | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| Phase Noise | Phase Noise | | -78 | | dBc/Hz | 10Hz |
| | | | -110 | | | 100Hz |
| | | | -133 | | | 1KHz |
| | | | -145 | | | 10KHz |
| | | | -150 | | | 100KHz |
| Environmental Conditions | Operable Temperature | -5 | | +80 | ℃ | |
| | Storage Temperature | -55 | | +125 | ℃ | |
| | ESD Level | Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010. | | | | |
| | | Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010. | | | | |
| | Moisture Sensitivity Level | Level 2. | | | | |
| | Vibration | Test Condition: 0.75mm ;acceleration:10g;50Hz～2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z) | | | | |
| | Shock | 100g；11ms；half sine wave (3 times for each 3 directions X ,Y, Z ),IEC 68-2-27 Test Ea/Severity 50A. | | | | |
| | Drop | Test Condition: free drop on steel-made surface or rigid planes from a height of 100cm,IEC 68-2-32. | | | | |
| Full Package Storage | Relative humidity (%) | 20%～70% | | | | |
| | Temperature (℃) | -10~35℃ | | | | |

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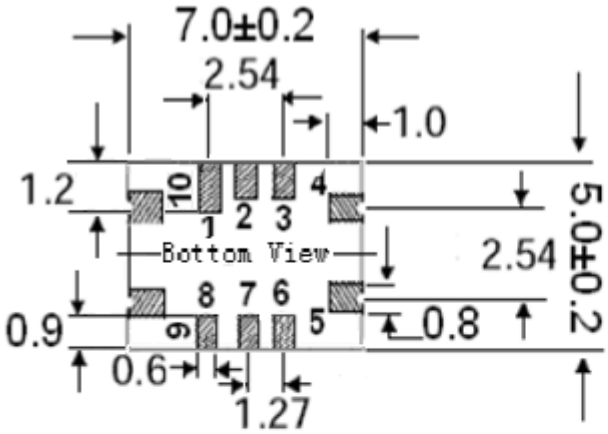
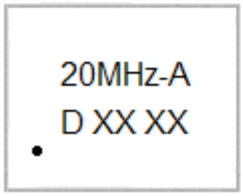
## 2. Mechanical Structure(mm)








Pad Connections
1 N/C
2.N/C
3.N/C
4.GND
5.Output
6.N/C
7.N/C
8.N/C
9. +Vdd
10. N/C OR GND

**Note1:** Tolerance ±0.20mm without mark

**Note2:** The bottom view means that the stitches are against the people **Unit: mm**

**Note3:** D XX XX

(1)D Indicate DAPU

(2)The fore xx indicate year of

(3)The later XX indicate week of Test circuit

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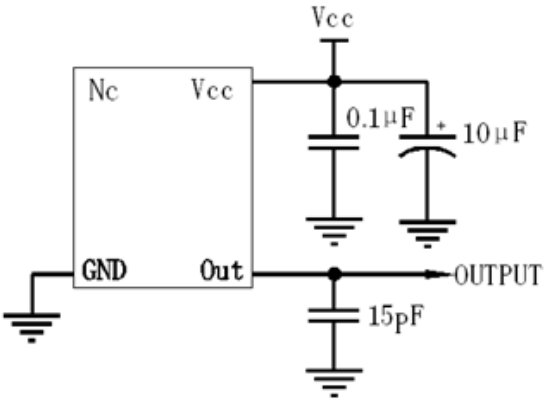
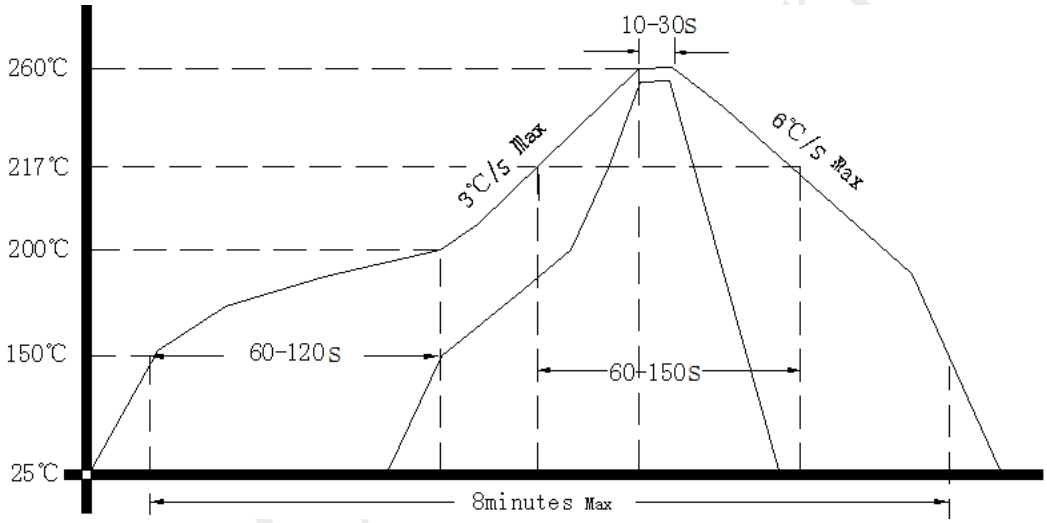
## 3. Test circuit




## 4. Reflow Soldering Curve (RoHS)




**Note:** If soldering with a hot air gun, ensure the temperature ＜320℃， soldering time ＜15 seconds.

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