Customer Code : _____

# DATASHEET

DAPU P/N: **M11A-A419-40.00MHz**

Customer P/N: _____

| DAPU | | | Customer Approval |
|---|---|---|---|
| Drew | Audited | Approved | Stamp, please! Thanks! |
| Amway.wei | Carry.Wang | James.Liu | |
| Date: 2016.08.25 | | | |


## Guangdong Dapu Telecom Technology Co.,Ltd

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# Table of amendment

| Version | Revision contents | Prepared by | Revised date |
|---|---|---|---|
| 1.0 | The first issued | Amway | 2016.08.25 |
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# 1. Electrical Parameters

| **MODEL： M11A-A419-40.00MHz** | | | | | | |
|---|---|---|---|---|---|---|
| Item | Description | Parameters | | | Unit | Test Condition |
| | | Min. | Typ. | Max. | | |
| Output | Frequency | | 40.00 | | MHz | |
| | Output Waveform | | Sine Wave | | | |
| | Pk-pk | 3 | | | V | |
| | Harmonics Suppression | | | -30 | dBc | |
| | Spurious Suppression | | | -60 | dBc | |
| | Load | | 1 | | KΩ | |
| Frequency Stabilities | Frequency Tolerance vs. Operating Temperature Range | -2 | | +2 | $\times 10^{-6}$ | $T_A$ varied from-40℃ to 85℃,measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, $V_{cc}$=3.3V, $O_{load=}$1KΩ, 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. |
| | Frequency Tolerance vs. Supply Voltage | -0.1 | | +0.1 | $\times 10^{-6}$ | measurement referenced to frequency observed $T_A$=25℃, $V_{cc}$ varied from 3.13V to 3.47V, and $O_{Load}$=1KΩ. |
| | Frequency Tolerance vs. Load | -0.1 | | +0.1 | $\times 10^{-6}$ | 5% load change measurement referenced to frequency observed with $T_A$= 25℃, $V_{cc}$=3.3V, $O_{Load}$=1KΩ. |
| | 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 | -1.5 | | +1.5 | $\times 10^{-6}$ | |
| Power Supply | Current Consumption | | 10 | | mA | @25℃, $V_{cc}$=3.3V, $O_{load}$=1KΩ. |
| | Supply Voltage | 3.13 | 3.3 | 3.47 | V | |
| Phase Noise | Phase Noise | | -125 | | dBc/Hz | 1KHz |

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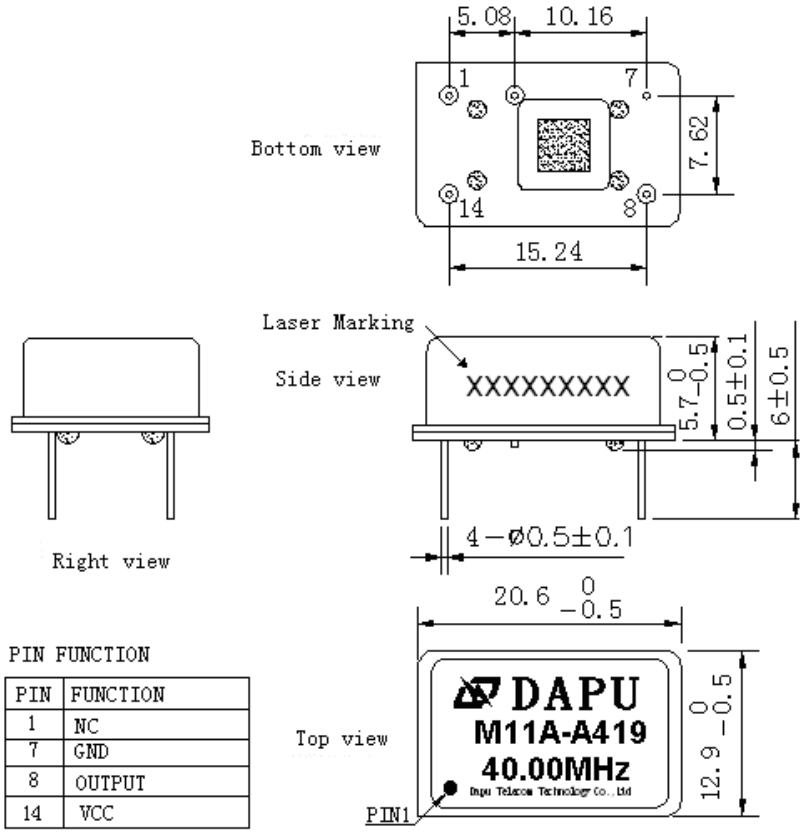
| | | | | | | |
|---|---|---|---|---|---|---|
| Environmental Conditions | Operable Temperature | -40 | | +85 | ℃ | |
| | Storage Temperature | -55 | | +105 | ℃ | |
| | ESD Level | Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010. | | | | |
| | | Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010. | | | | |
| | Moisture Sensitivity Level | Not humidity sensitive. | | | | |
| | Vibration | Test Condition: 0.75mm ;acceleration:10g;10Hz～500Hz～10Hz, test 1 hour. (in 3 directions X ,Y , Z), GJB 360B-2009 Test Ea 204. | | | | |
| | Shock | 100g; 6ms; half sine wave (3 times for each 3 directions X ,Y, Z ), GJB 360B-2009 Test Ea 213 | | | | |
| Full Package Storage | Relative humidity (%) | 20%～70% | | | | |
| | Temperature (℃) | -10~35℃ | | | | |

## 2. Mechanical Structure(mm)




PIN FUNCTION

| PIN | FUNCTION |
|---|---|
| 1 | NC |
| 7 | GND |
| 8 | OUTPUT |
| 14 | VCC |

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

**Note2:** Referential Weight 4.2g

**Note3:** NC is not connect

**Note4:** Laser marking explanation: The first six X representative: (year) (month) (date)
After three X representative: Serial number

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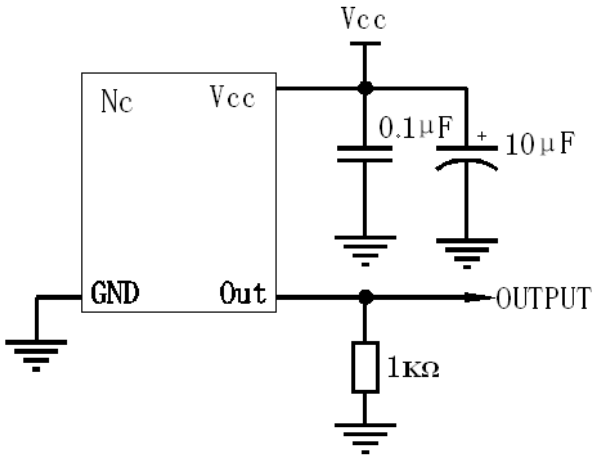
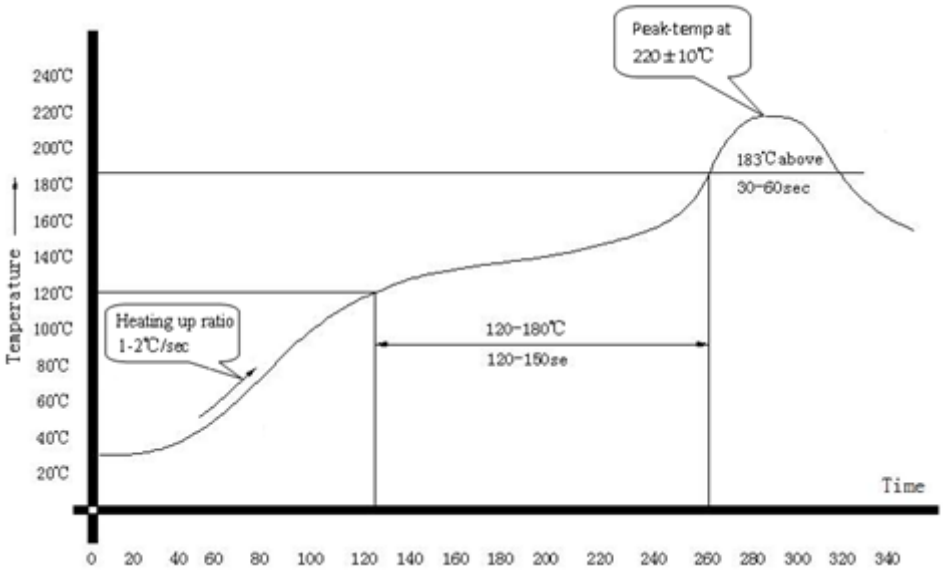
## 3. Test circuit




## 4. Reflow Soldering Curve




## 5. Package: PVC Tube,10pcs（mm）