

Travelling Merchant: _____

DATASHEET

Standard: **M936-G321-26.00MHz**

P/N: _____

| Plot | | | The Label |
|------------------|---------|----------|------------------------|
| Drew | Audited | Approved | Stamp, please! Thanks! |
| | | | |
| Date: 2013.09.17 | | | |

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1. Electrical Parameters

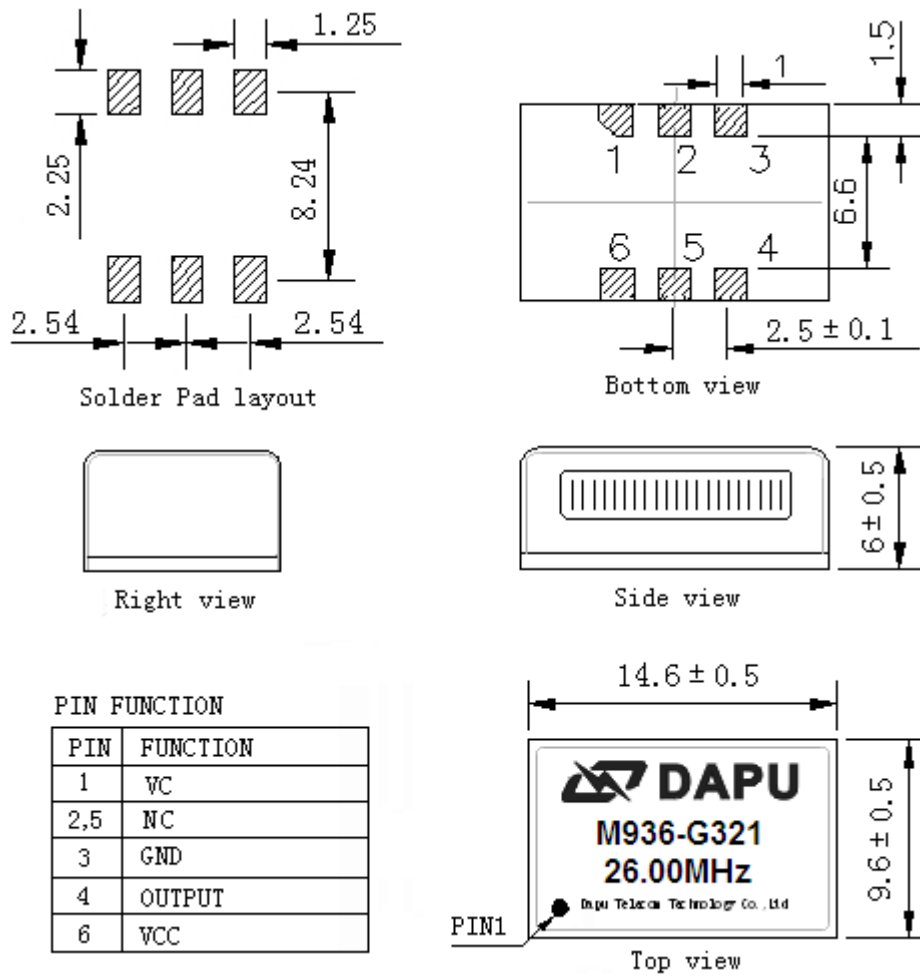
| MODEL: M936-G321-26.00MHz | | | | | | |
|---------------------------|--|------------|------|-------|------------------|--|
| Item | Description | Parameters | | | Unit | Test Condition |
| | | Min. | Typ. | Max. | | |
| Output | Frequency | 26.00 | | | MHz | |
| | Output Waveform | HCMOS | | | | |
| | Output Low Voltage | | | 0.4 | V | $V_{cc}=5.0V, O_{load}=15\text{ pF}$ |
| | Output High Voltage | 2.4 | | | V | $V_{cc}=5.0V, O_{load}=15\text{ pF}$ |
| | Duty Cycle | 45 | 50 | 55 | % | @50% |
| | Rise / Fall Time (10%~90%) | | 7 | 8 | ns | @25°C |
| | Load | 15 | | | pF | |
| Frequency Stabilities | Frequency Tolerance vs. Operating Temperature Range | -0.05 | | +0.05 | $\times 10^{-6}$ | T_A varied from -30°C to 80°C, measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=5.0V, V_c=1.65V, O_{load}=15\text{pF}$, temperature variable speed less than 2°C per minute. |
| | Initial Frequency Tolerance | -0.2 | | +0.2 | $\times 10^{-6}$ | Measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=5.0V, V_c=1.65V$ within 30 days after ex-works. |
| | Frequency Tolerance vs. Supply Voltage | -0.1 | | +0.1 | $\times 10^{-6}$ | measurement referenced to frequency observed $T_A=25^\circ\text{C}, V_{cc}$ varied from 4.75V to 5.25V, $V_c=1.65V$ and $O_{Load}=15\text{pF}$. |
| | Frequency Tolerance vs. Load | -0.1 | | +0.1 | $\times 10^{-6}$ | 5% load change measurement referenced to frequency observed with $T_A=25^\circ\text{C}, V_{cc}=5.0V, V_c=1.65V, O_{Load}=15\text{pF}$. |
| | Aging Tolerance Per Day | -0.02 | | +0.02 | $\times 10^{-6}$ | $T_A=25^\circ\text{C}, V_{cc}=5.0V, V_c=1.65V$ and after 1h of operation. |
| | Aging Tolerance 1 Year | -1 | | +1 | $\times 10^{-6}$ | |
| | Aging Tolerance 10 Year | -3 | | +3 | $\times 10^{-6}$ | |
| Power Supply | Current Consumption | | | 30 | mA | @25°C, $V_{cc}=5.0V, V_c=1.65V, O_{load}=15\text{pF}$. |
| | Supply Voltage | 4.75 | 5.0 | 5.25 | V | |



| | | | | | | |
|---------------------------------|--|--|------|------|------------------|--|
| Voltage Control Characteristics | Frequency Tuning Range | | | -5 | $\times 10^{-6}$ | $V_c=0V$. measurement referenced to $V_c=1.65V$ |
| | | -0.2 | | +0.2 | $\times 10^{-6}$ | $V_c=1.65V$. measurement referenced to exactly 26.00MHz |
| | | +5 | | | $\times 10^{-6}$ | $V_c=3.3V$. measurement referenced to $V_c=1.65V$ |
| | Linearity | | | 10 | % | |
| | Slope | Positive | | | | |
| | Input Impedance | 100 | | | | K Ω |
| Phase Noise | Phase Noise | | -120 | -110 | dBc/Hz | 1KHz |
| Environmental Conditions | Operable Temperature | -30 | | +80 | $^{\circ}C$ | |
| | Storage Temperature | -55 | | +105 | $^{\circ}C$ | |
| | 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;10Hz~2000Hz, one cycle per 30 min, 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 Test Ea/Severity 50A. | | | | | |



2. Mechanical Structure(mm)

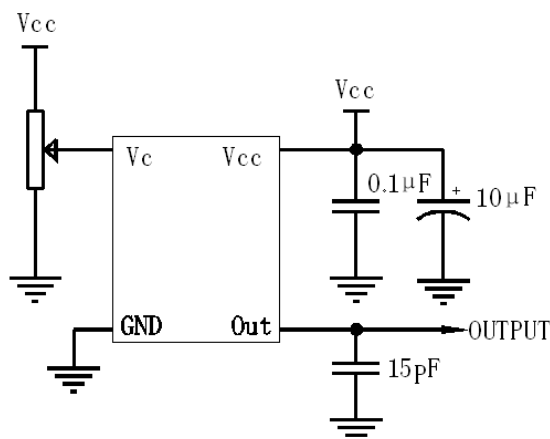


Note1: Tolerance $\pm 0.2\text{mm}$ without mark

Note2: Referential Weight 1.5g

Note3: NC is not connect

3. Test circuit





4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

