

Travelling Merchant: _____

DATASHEET

Standard: JO22B-J426-10.00MHZ

| Plot | | | The Label |
|------------------|---------|----------|------------------------|
| Drew | Audited | Approved | Stamp, please! Thanks! |
| | | | |
| Date: 2018.03.22 | | | |

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1. Electrical Parameters

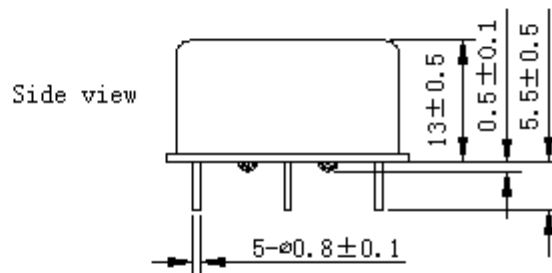
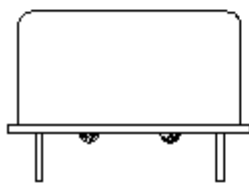
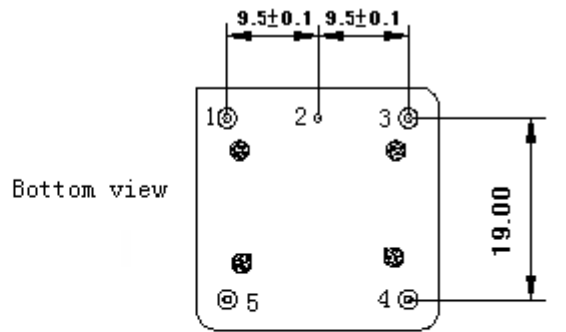
| MODEL: JO22B-J426-10.00MHZ | | | | | | |
|----------------------------|---|------------|------|-------|------------------|---|
| Item | Description | Parameters | | | Unit | Test Condition |
| | | Min. | Typ. | Max. | | |
| Output | Frequency | 10.00 | | | MHz | |
| | Output Waveform | Sine wave | | | | |
| | Level | 6 | 8 | 10 | dBm | |
| | Load | | 50 | | Ω | |
| | Harmonics Suppression | | | -30 | dBc | |
| | Spurious Suppression | | | -60 | dBc | |
| Frequency Stabilities | Frequency Tolerance vs. Operating Temperature Range | -1 | | +1 | $\times 10^{-9}$ | T_A varied from -55°C to 85°C , measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{CC}=5.0\text{V}$, $V_C=2.0\text{V}$, $O_{load}=50\Omega$, temperature rise speed less than 2°C per minute |
| | Initial Frequency Tolerance | -0.05 | | +0.05 | $\times 10^{-6}$ | Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{CC}=5.0\text{V}$, $V_C=2.0\text{V}$ and after 15 minutes of operation, within 30 days after ex-works |
| | Frequency Tolerance vs. supply voltage | -1 | | +1 | $\times 10^{-9}$ | measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$, V_{CC} varied from 4.75V to 5.25V , $V_C=2.0\text{V}$, $O_{load}=50\Omega$ |
| | Frequency Tolerance vs. Load | -1 | | +1 | $\times 10^{-9}$ | 5% Load Change Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{CC}=5.0\text{V}$, $V_C=2.0\text{V}$, $O_{load}=50\Omega$ |
| | Short Term Stability | | | 0.005 | $\times 10^{-9}$ | Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C ; 1s, using PN9000 equipment. |
| | Aging Tolerance per day | -0.3 | | +0.3 | $\times 10^{-9}$ | V_{CC}, V_C, T_A constant Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}, V_{CC}=5.0\text{V}$ |
| | Aging Tolerance 1 Year | -0.03 | | +0.03 | $\times 10^{-6}$ | $V_C=2.0\text{V}, O_{load}=50\Omega$ and after 30 days of operation |
| Power Supply | Supply Voltage | 4.75 | 5.0 | 5.25 | V | |
| | Steady Consumption | | | 400 | mA | @ 25°C |
| | Warm up current | | | 1000 | mA | |
| | Warm up Time | | | 5 | minutes | |



| | | | | | | |
|---------------------------------|-----------------------------|---|------|-------|------------------|---|
| Voltage Control Characteristics | Frequency Tuning Range | | | -0.3 | $\times 10^{-6}$ | $V_C=0V$. measurement referenced to $V_C=2.0V$ |
| | | -0.05 | | +0.05 | $\times 10^{-6}$ | $V_C=2.0V$. measurement referenced to exactly 10.00MHz |
| | | +0.3 | | | $\times 10^{-6}$ | $V_C=4.0V$. measurement referenced to $V_C=2.0 V$ |
| | Linearity | | | 10 | % | |
| | Slope | Positive | | | | |
| | Input Impedance | 100 | | | | K Ω |
| Phase Noise | Phase Noise | | -100 | -95 | dBc/Hz | 1Hz |
| | | | -130 | -125 | | 10Hz |
| | | | -147 | -142 | | 100Hz |
| | | | -160 | -150 | | 1KHz |
| | | | -160 | -150 | | 10KHz |
| Environmental Conditions | Operable Temperature | -55 | | +85 | $^{\circ}C$ | |
| | Storage Temperature | -60 | | +90 | $^{\circ}C$ | |
| | 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 ($^{\circ}C$) | -10~35 $^{\circ}C$ | | | | |

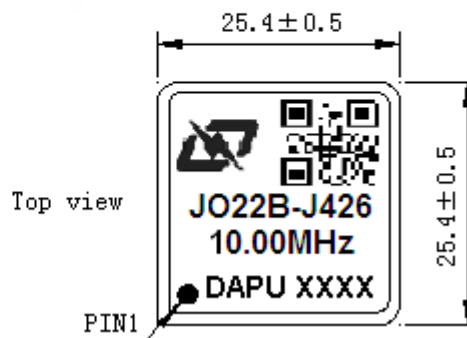


2. Mechanical Structure (mm)



PIN FUNCTION

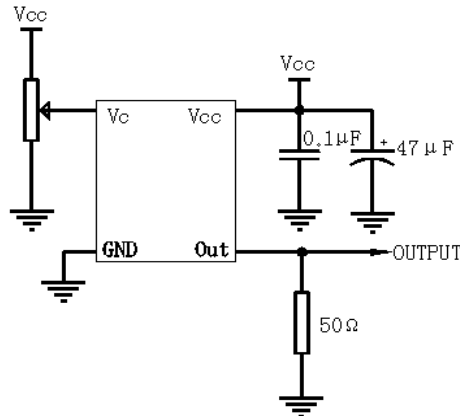
| PIN | NOTATION | FUNCTION |
|-----|----------|-----------------|
| 1 | OUTPUT | RF Output |
| 2 | GND | GND |
| 3 | VC | Control Voltage |
| 4 | NC | Not Connect |
| 5 | VCC | Supply Voltage |



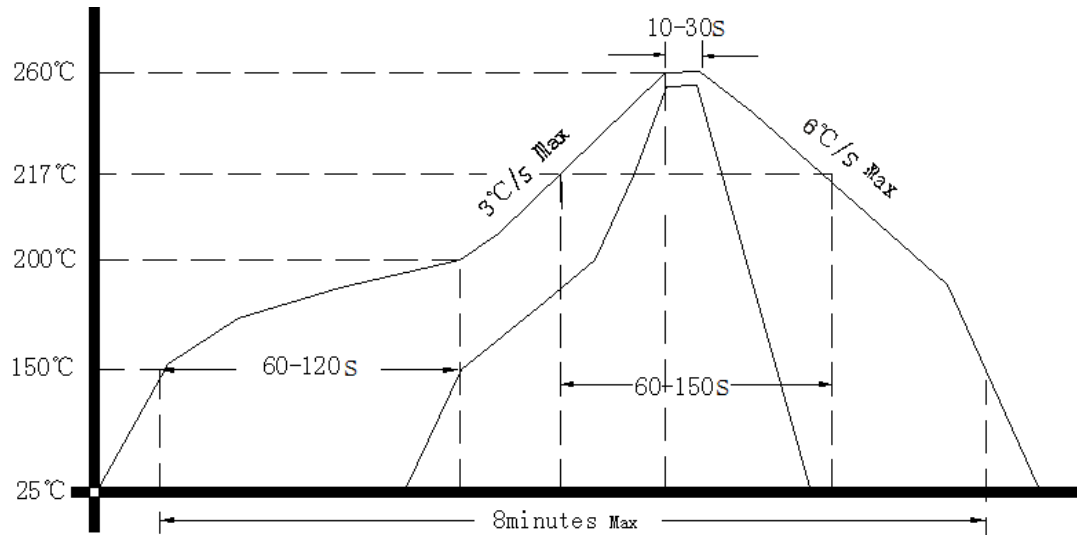
- Note1:** Tolerance $\pm 0.2\text{mm}$ without mark
- Note2:** The first two xx representative: week
After two xx representative: year
- Note3:** Referential Weight 13.6g
- Note4:** NC is not connect



1. Test Circuit



2. Wave Soldering Curve (RoHS)



5. Package: PVC Tube, 9pcs

