

Customer Code: _____

DATASHEET

DAPU P/N: **O11F-Q419-25.00MHz**

Customer P/N: _____

| DAPU | | | Customer Approval |
|------------------|---------|----------|------------------------|
| Drew | Audited | Approved | Stamp, please! Thanks! |
| | | | |
| Date: 2021.08.26 | | | |

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1. Electrical Parameters

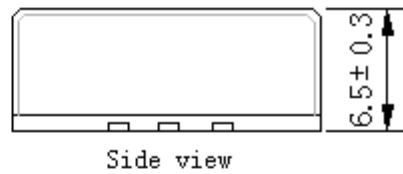
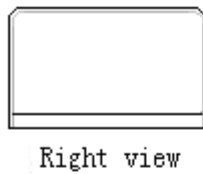
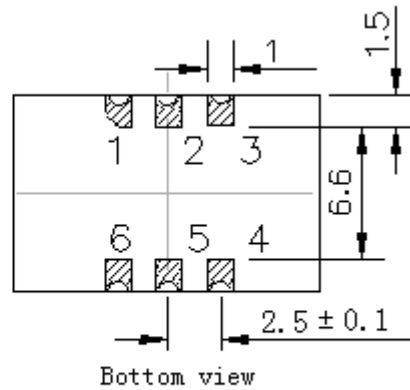
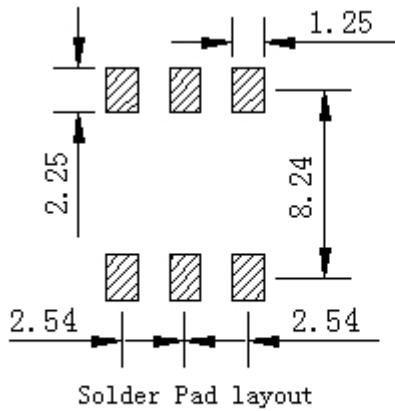
| MODEL: O11F-Q419-25.00MHz | | | | | | |
|---------------------------|---|------------|------|-------|------------------|--|
| Item | Description | Parameters | | | Unit | Test Condition |
| | | Min. | Typ. | Max. | | |
| Output | Frequency | 25.00 | | | MHz | |
| | Output Waveform | Sine wave | | | | |
| | Level | 6 | | 10 | dBm | |
| | Load | 50 | | | Ω | |
| | Harmonics Suppression | | | -30 | dBc | |
| | Spurious Suppression | | | -60 | dBc | |
| Frequency Stabilities | Frequency Tolerance vs. Operating Temperature Range | -0.02 | | +0.02 | $\times 10^{-6}$ | T_A varied from -40°C to 85°C , measurement referenced to frequency observed with $f_{\text{ref}}=(f_{\text{max}}+f_{\text{min}})/2$, $V_{\text{cc}}=3.3\text{V}$, $O_{\text{load}}=50\Omega$, temperature variable speed less than 2°C per minute. |
| | Initial Frequency Tolerance | -0.5 | | +0.5 | $\times 10^{-6}$ | Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{\text{cc}}=3.3\text{V}$, and after 15 minutes of operation, within 30 days after ex-works. |
| | Frequency Tolerance vs. Supply Voltage | -0.01 | | +0.01 | $\times 10^{-6}$ | measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$, V_{cc} varied from 3.13V to 3.47V, $O_{\text{load}}=50\Omega$. |
| | Frequency Tolerance vs. Load | -0.01 | | +0.01 | $\times 10^{-6}$ | 5% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{\text{cc}}=3.3\text{V}$, and $O_{\text{Load}}=50\Omega$. |
| | Short-Term Stability: Allan Variance | | | 0.1 | $\times 10^{-9}$ | Temperature stability, no EMI\EMC or other interference, test after power for 1hour ref. to 25°C ; 1s. |
| | Aging Tolerance Per Day | -5 | | +5 | $\times 10^{-9}$ | V_{cc}, T_A constant measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{\text{cc}}=3.3\text{V}$, and after 30 days of operation. |
| | Aging Tolerance 1 Year | -0.5 | | +0.5 | $\times 10^{-6}$ | |
| | Aging Tolerance 10 Years | -3 | | +3 | $\times 10^{-6}$ | |
| Power Supply | Supply Voltage | 3.13 | 3.3 | 3.47 | V | |
| | Steady Consumption | | | 300 | mA | @ 25°C |
| | Warm Up Current | | | 600 | mA | |



| | | | | | | |
|--------------------------|---|--|------|------|--------|--------|
| Phase Noise | Phase Noise | | -100 | -90 | dBc/Hz | 10Hz |
| | | | -130 | -120 | | 100Hz |
| | | | -150 | -145 | | 1KHz |
| | | | -150 | -145 | | 10KHz |
| | | | -150 | -145 | | 100KHz |
| | | | -155 | -150 | | 1MHz |
| Environmental 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 Level | Level 2. | | | | |
| | 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 (°C) | -10~35°C | | | | |



2. Mechanical Structure(mm)



PIN FUNCTION

| PIN | NOTATION | FUNCTION |
|-----|----------|----------------|
| 1 | NC | Not Connect |
| 2,5 | NC | Not Connect |
| 3 | GND | GND |
| 4 | OUTPUT | RF Output |
| 6 | VCC | Supply Voltage |



Note1: Tolerance $\pm 0.20\text{mm}$ without mark

Note2: The first two xx representative: week
After two xx representative: year

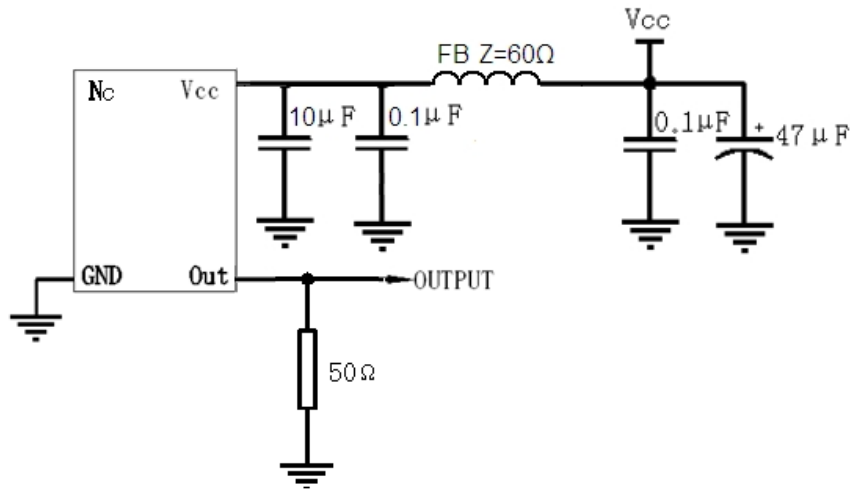
Note3: Referential weight 2.2g

Note4: NC is not connect

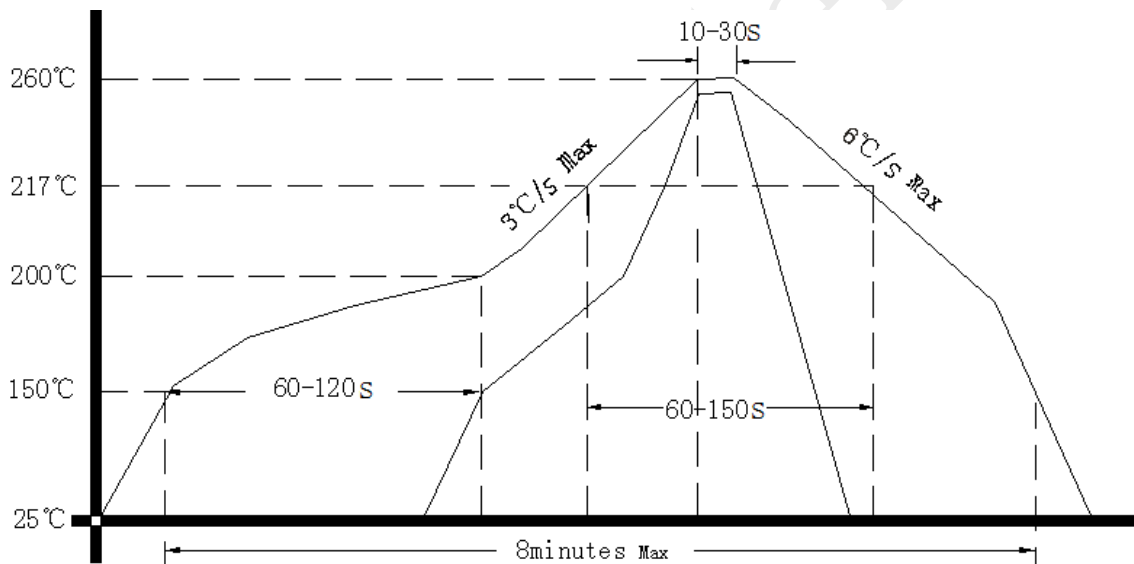
Note5: Passing through reflow upside down is not supported



3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

