

Customer Code : _____

DATASHEET

DAPU P/N : **V936-D312-160.00MHz**

Customer P/N: _____

| DAPU | | | Customer Approval |
|------------------|---------|----------|------------------------|
| Drew | Audited | Approved | Stamp, please! Thanks! |
| | | | |
| Date: 2023.05.22 | | | |

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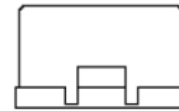
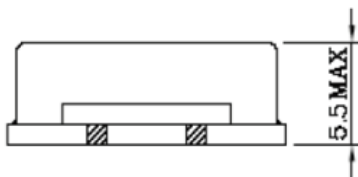
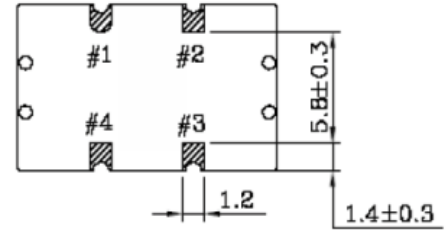
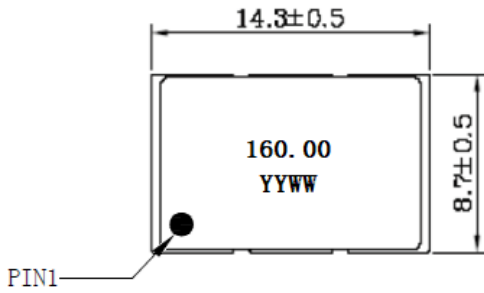


1、 Electrical Parameters

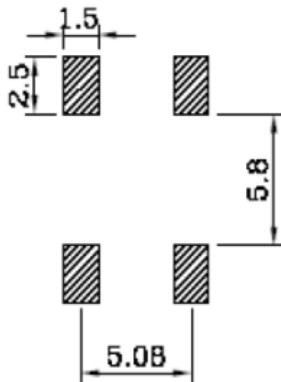
| Parameters | SYM | Electrical Spec. | | | | Notes |
|---------------------------------|-------------|------------------|------|----------|------------------|--|
| | | Min. | Typ. | Max. | Units | |
| Frequency Stabilities | | | | | | |
| Nominal Frequency | F_N | 160.00 | | | MHz | |
| Frequency Stability | | -20 | | +20 | $\times 10^{-6}$ | T_A varied from -40°C to 85°C |
| Frequency Tolerance | | -10 | | +10 | $\times 10^{-6}$ | @25°C |
| Aging@1 year | | -2 | | +2 | $\times 10^{-6}$ | |
| RF Output | | | | | | |
| Output Waveform | | HCMOS | | | | |
| Load | I_{OUT} | 15 | | | pF | |
| High Levels | V_{OH} | 90% | | | V_{CC} | |
| Low Levels | V_{OL} | | | 10% | V_{CC} | |
| Rise / Fall Time | T_r / T_f | | | 3 | ns | 10%-90% |
| Start-up | | | | 10 | ms | |
| Symmetry | SYM | 45 | 50 | 55 | % | |
| Supply Voltage | | | | | | |
| Supply Voltage | V_{CC} | 2.97 | 3.3 | 3.63 | V | |
| Supply Current | I_{CC} | | | 40 | mA | |
| Control Voltage | | | | | | |
| Control Voltage | | 0 | 1.65 | 3.3 | V | |
| Absolute Pull Range (APR) | | | | ± 28 | $\times 10^{-6}$ | Including Aging and stability included |
| Input Impedance | | 1000 | | | Kohm | |
| Linearity | | | | 10 | % | |
| Slope | | Positive | | | | |
| Phase Noise | | | | | | |
| Jitter RMS (12KHz-20MHz) | | | | 100 | fs | |
| Phase Noise | | | | -70 | dBc/Hz | 10Hz |
| | | | | -105 | | 100Hz |
| | | | | -135 | | 1KHz |
| | | | | -150 | | 10KHz |
| | | | | -160 | | 100KHz |
| | | | | -160 | | 1MHz |
| Environmental Conditions | | | | | | |
| Operating Temperature | T_{OP} | -40 | ~ | 85 | °C | |
| Storage Temperature | T_{ST} | -55 | ~ | 125 | °C | |



2、 Mechanical Structure(mm)



Recommended Land Pattern



| Pin # | Functionality |
|-------|-----------------|
| 1 | Voltage Control |
| 2 | Ground |
| 3 | RF Output |
| 4 | Vdd |

Note1: The “YY” representative: year, “WW” representative: week