



Description

- Oven controlled crystal oscillator (OCXO) with voltage control on a FR4 base with a metal lid.

- Model IQOV-162-3
- Model Issue number 2

Frequency Parameters

- Frequency 20.0MHz
- Frequency Tolerance @ 25°C ±500.00ppb
- Frequency Stability ±20.00ppb
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±5ppb max per day, ±500ppb max per year
- Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V, VC =1.65V and load=15pF): ±10ppb max
- Ageing: Vs, VC, TA constant measurement referenced to frequency observed with TA=25°C, Vs= 3.3V, VC=1.65V and after 30 days of operation.
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC =1.65V and load=15pF): ±10ppb max
- Short Term Stability - Allan Variance (temperature stability, no EMI/EMC or other interference test after power for 1hr ref. to 25°C; 1s, using PN9000 equipment): 0.1ppb max / 1sec
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and after 15 minutes of operation, within 30 days after ex-works): ±500ppb
- Frequency Stability: TA varied from -40°C to 85°C, measurement referenced to frequency observed with $f_{ref} = (f_{max} + f_{min}) / 2$, Vs=3.3V, VC=1.65V, load=15pF, temperature variable speed less than 2°C per minute.

Electrical Parameters

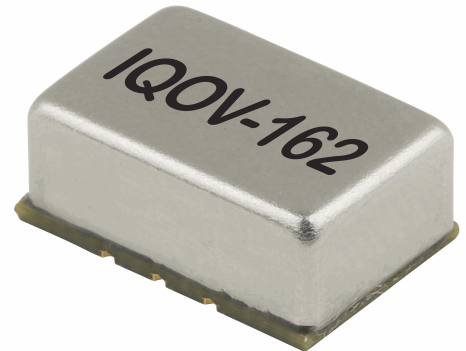
- Supply Voltage 3.3V
- Supply Voltage Tolerance ±5%
- Current Draw:
Warm up: 560mA max
Steady state (@ 25°C): 250mA max
- Warm-Up Time (@ 25°C, $F < \pm 100$ ppb of final frequency): 5mins max

Frequency Adjustment

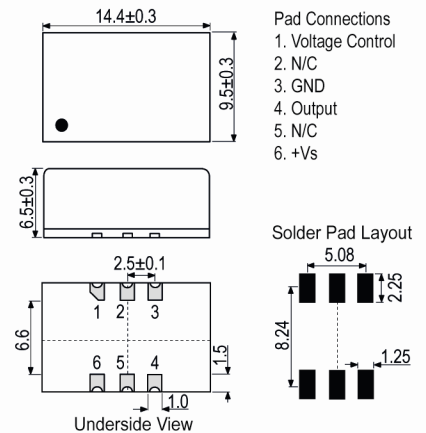
- Pulling ±3ppm to ±8ppm
- Control Voltage Details 1.65V ±1.65V
- Linearity: ±10% max
- Slope: Positive
- Input Impedance: 100kΩ min

Output Details

- Output Compatibility HCMOS
- Output Load 15pF
- Rise and Fall time 8ns max
- Duty Cycle 45/55%
- Output Low (@ Vs=3.3V, load=15pF): 0.4V max
Output High (@ Vs=3.3V, load=15pF): 2.4V min



Outline (mm)



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Noise Parameters

- Phase Noise (@ 10MHz typ):
 - 100dBc/Hz @ 10Hz
 - 130dBc/Hz @ 100Hz
 - 145dBc/Hz @ 1kHz
 - 150dBc/Hz @ 10kHz
 - 150dBc/Hz @ 100kHz
 - 155dBc/Hz @ 1MHz

Environmental Parameters

- Shock: IEC 60068-2-27, Test Ea, Severity 50A: 50G, 11ms duration, 1/2 sine wave, 3 times in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-06, Test Fc: 10Hz-500Hz, 0.75mm displacement, 10G acceleration, one cycle per 30mins, 3 times in each of 3 mutually perpendicular planes, test 2hrs
- Storage Temperature Range: -55 to 105°C
- Operable Temperature Range: -40 to 85°C
- ESD Level:
 - HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010
 - Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010

Manufacturing Details

- Maximum Reflow Temperature: 260°C (30secs max)
- Moisture Sensitivity Level: 2

Compliance

- RoHS Status Compliant
- REACH Status Compliant

Packaging

- Pack Type: Bulk Loose in bulk pack
- Pack Size 1
- Alternative packing option available

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