





Customer Part:

Description

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

■ Model IQOV-162-4

Model Issue number2

Frequency Parameters

Frequency 10.0MHzFrequency Tolerance ±500.00ppb

Tolerance Condition
@ 25°C, 3.3V, VC=1.65V
after 15mins warm-up

Frequency Stability ±20.00ppb

■ Operating Temperature Range -40.00 to 85.00°C

Ageing ±5ppb max per day, ±500ppb

max per year

 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 over temperature, measurement referenced to frequency observed with fref=(fmax+fmin)/2, Vs=3.3V, VC=1.65V, load=50Ω, temperature variable speed less than 2°C per minute.

 Ageing: Vs, VC, TA constant measurement referenced to frequency observed with TA=25°C, Vs= 3.3V, VC=1.65V, load=50Ω and after 30 days of operation.

 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=50Ω): ±10ppb max

 Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC =1.65V and load=50Ω): ±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

Electrical Parameters

Supply Voltage 3.3V ±5%

Current Draw:

Warm up: 600mA max

Steady state (@ 25°C): 300mA max

 Warm-Up Time (@ 25°C, F<±100ppb of final frequency): 5mins max

Frequency Adjustment

Pulling ±3ppm to ±8ppm
Control Voltage 1.65V ±1.65V
Input Impedance 100kΩ min

Linearity: ±10% max

Slope: Positive

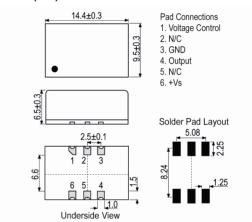
Output Details

Output Compatibility Sine
Drive Capability 50Ω
Output Level: 6dBm min, 10dBm max





Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760 668 8935

Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com





Part No. + Packaging: LFOCXO063805Bulk

Customer Part:

Noise Parameters

- Phase Noise (@ 10MHz typ):
 - -100dBc/Hz @ 10Hz
 - -130dBc/Hz @ 100Hz
 - -150dBc/Hz @ 1kHz
 - -150dBc/Hz @ 10kHz
 - -150dBc/Hz @ 100kHz
 - -155dBc/Hz @ 1MHz
- Harmonic Suppression: -30dBc max Spurious Suppression: -60dBc max

Environmental Parameters

- Operable Temperature Range: -40 to 85°C
- Storage Temperature Range: -55 to 105°C
- ESD Level:
 - HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010 Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010
- 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

Manufacturing Details

Maximum Reflow Temperature: 260°C (30secs max)

Compliance

RoHS Status (2015/863/EU) Compliant **REACh Status** Compliant MSL Rating (JDEC-STD-033):

Packaging Details

Pack Style: Bulk Loose in bulk pack

Pack Size: 1

Alternative packing option available

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