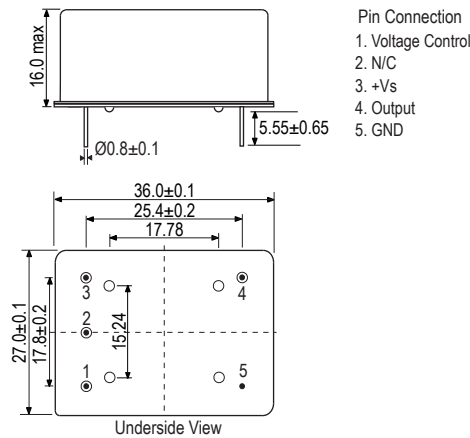


OSCILLATOR SPECIFICATION

Part Number + Packaging: **LFOCXO053627Bulk**

Model: IQOV-70-6





Outline drawing; All Dimensions in mm

Frequency	10.0MHz
Holder	36 x 27mm
Frequency Tolerance @ 25°C	±100ppb max
Frequency Stability vs Operating Temperature Range	±10ppb max
Operating Temperature Range	-20 to 70°C
Ageing (after 30 days continuous operation):	±0.5ppb max per day ±100ppb max after 1st year ±1500ppb max after 10 years
Supply Voltage Variation (@ ±5% change)	±1ppb max
Load Variation (@ ±10% change)	±1ppb max
Supply Voltage	5.0V ±5%
Current Consumption	250mA max @ 25°C steady state 600mA max during warm-up
Pullability	±1000ppb min to ±2000ppb max
Voltage Control	2.5V ±2.5V
Input Impedance	100kΩ min
Linearity	±10% max
Modulation Bandwidth (3dB)	3kHz
Output Compatibility	HCMOS
Output Load	50pF
Rise/Fall Time	10ns max (10% to 90%)
Duty Cycle	40/60% max
Output Levels	Output Low: 0.5V max Output High: 4.5V min
Phase Noise	-80dBc/Hz max @ 1Hz -120dBc/Hz max @ 10Hz -140dBc/Hz max @ 100Hz -145dBc/Hz max @ 1kHz -150dBc/Hz max @ 10kHz

Allan Variance $1\sigma^2$ (f)	$\pm 2E-11/1s$ max
Warm-Up Time from 25°C	15min max to $\pm 100ppb$
Note	Nominal frequency tolerance reference to f @ 1hr
Nominal Frequency Reference Temperature Reference Voltage Control	25°C $\pm 3^\circ C$ 2.5V
Storage Temperature Range	-40 to 85°C
Packaging	Bulk
RoHS Status	RoHS Compliant
Marking Includes	IQD FOQ, Model, Frequency, Date Code

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Issue	1				
Date	26th May 2011				
Eng. Approval					
QA Approval					

Please note that, if required, IQD can vary all the parameters of this product to better suit your application, please contact our sales team for more details.