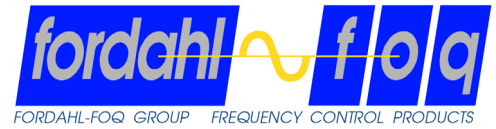


Oscillator specification: PTOC32242.003
Custom designation: 13MHz OCXO



FORDAHL-FOQ GROUP FREQUENCY CONTROL PRODUCTS

Supervision by:

Date , Sign. : 26.03.09 U. Schweickert

TYP: OCXO with 13,000000 MHz

1. Electrical Parameters

Supply / Power:

Supply Voltage:	12 V ± 5 %
Max. Current Consumption @ 25 °C:	100 mA
Max. Current Consumption during warm up:	250 mA

Nominal Frequency (f0):

@ Reference Temperature:	13,000000 MHz
@ Reference Control Voltage:	25 °C ± 3°C
	3 V

Temperature Range:

Operating Temperature Range 1:	-40 °C ... 70 °C
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Frequency Tolerance:

Nominal Frequency Tolerance ($\Delta f/f_0$):	$\leq \pm 0,1$ ppm @ $V_c = 3$ V
Tolerance vs Temperature Range 1 ($\Delta f/f$):	$\leq \pm 0,025$ ppm

Aging:

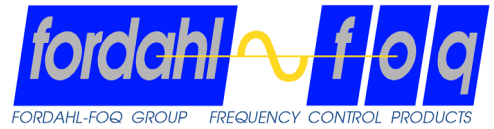
After 30 Days of Continuous Operation:	
Aging Tolerance per day ($\Delta f/f$):	$\leq \pm 0,001$ ppm
Aging Tolerance 1. Year ($\Delta f/f$):	$\leq \pm 0,1$ ppm
Aging Tolerance after 10 Years ($\Delta f/f$):	$\leq \pm 0,4$ ppm

Short Term Stability:

Allan Variance $1\sigma^2(\tau)$:	$\leq \pm 2E-11 / 1$ s
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Specification accepted by Customer

Oscillator specification: PTOC32242.003
Custom designation: 13MHz OCXO



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Tuning range:

Control Voltage = 0 V ($\Delta f/f_0$):	+ 0,7 ppm ... + 1,0 ppm
Control Voltage = 3 V ($\Delta f/f_0$):	- 0,1 ppm ... + 0,1 ppm
Control Voltage = 6 V ($\Delta f/f_0$):	- 1,0 ppm ... - 0,7 ppm

Output:

Output signal:	Sinewave
Load:	50 Ω
Output voltage:	7dBm ... 11dBm

Reference Voltage Output:	7,5V \pm 5%
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Frequency spectrum:

Attenuation of 1. Harmonic:	\geq 20 dB
Attenuation of Harmonics (MHz ... MHz):	\geq 20dB

Phase noise

at 1 Hz	\leq -80 dBc/Hz
at 10 Hz	\leq -120 dBc/Hz
at 100 Hz	\leq -140 dBc/Hz
at 1 kHz	\leq -150 dBc/Hz
at 10 kHz	\leq -150 dBc/Hz

Others:

Tuning Range refer to $f_0 = 13$ MHz

2. Mechanical Data

Case:	CO-08_11
Pin Connections:	1:VC; 2:VR; 3:VS; 4:RF; 5:GND

3. Marking:

FOQ Piezo Technik
PTOC32242
<FREQUENZ> MHz
SN<SN> <DC>LF

Specification accepted by Customer

Drawing Name: CO-08_11
Drawing No: M003-129-ME01-000

F O Q Piezo Technik

