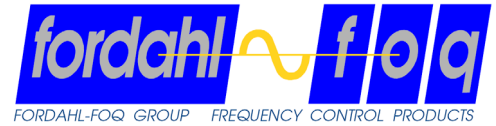


Oscillator specification: PTOC69314.001
Custom designation: SMD-OCXO 10 MHz



Supervision by:

Date , Sign. : 15.07.09 U. Schweickert

TYP: OCXO with 10,000000 MHz

1. Electrical Parameters

Supply / Power:

Supply Voltage:	3,3 V ± 5 %
Max. Current Consumption @ 25 °C:	300 mA
Max. Current Consumption during warm up:	750 mA

Nominal Frequency (f0):

@ Reference Temperature:	10,000000 MHz
@ Reference Control Voltage:	25 °C ± 3 °C
	1,4 V

Temperature Range:

Operating Temperature Range 1:	-10 °C ... 70 °C
Storage Temperature Range:	-40 °C ... 85 °C

Frequency Tolerance:

Nominal Frequency Tolerance ($\Delta f/f_0$):	$\leq \pm 0,2$ ppm @ $V_c = 1,4$ V
Tolerance vs Temperature Range 1 ($\Delta f/f$):	$\leq \pm 0,025$ ppm
Tol. vs Supply Voltage ($\Delta f/f$) @ 5% Supply Change:	$\leq \pm 0,002$ ppm
Tolerance vs Load ($\Delta f/f$) @ 10% Load Change:	$\leq \pm 0,005$ ppm

Aging:

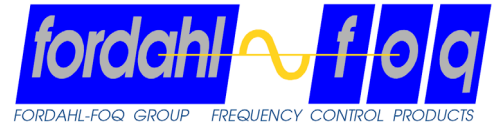
After 30 Days of Continuous Operation:	
Aging Tolerance per day ($\Delta f/f$):	$\leq \pm 0,0003$ ppm
Aging Tolerance 1. Year ($\Delta f/f$):	$\leq \pm 0,05$ ppm
Aging Tolerance 10 Years ($\Delta f/f$):	$\leq \pm 0,3$ ppm

Short Term Stability:

Allan Variance $1\sigma^2(\tau)$:	$\leq \pm 5E-11 / 1$ s
Allan Variance $2\sigma^2(\tau)$:	$\leq \pm 1E-10 / 100$ s

Specification accepted by Customer

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Tuning range:

Control Voltage = 0 V ($\Delta f/f$):	- 0,8 ppm ... - 2 ppm
Control Voltage = 1,4 V ($\Delta f/f$):	- 0,2 ppm ... + 0,2 ppm
Control Voltage = 2,8 V ($\Delta f/f$):	+ 0,8 ppm ... + 2 ppm
Input Impedance:	> 10 k Ω

Output:

Output Signal:	HCMOS / LVTTTL-compatible
Waveform:	Square Wave
Load:	10 k Ω // 15 pF
Output Level:	Low \leq 0,3 V, High \geq 2,5 V
Rise - / Falltime	8ns / 8 ns (10% to 90%)

Phase Noise (Typical Values):

at 1 Hz	\leq - 85 dBc/Hz
at 10 Hz	\leq - 115 dBc/Hz
at 100 Hz	\leq - 140 dBc/Hz
at 1 kHz	\leq - 150 dBc/Hz
at 10 kHz	\leq - 155 dBc/Hz

Others:

Warm up time: Frequency deviation after 5 min @ 25°C \leq \pm 50 ppb in reference to f @ 30 min
Retrace after 24 hours power off: \leq \pm 10 ppb, after 60 minutes @ 25 °C following 24 hours power off, referenced to turn off frequency. Also given 24 hours minimum on time prior turn off

2. Mechanical Data

Case:	CS-09_7, Height: typical 12 mm
Pin Connections:	1: VC; 2: NC; 3: VS; 4: RF; 5: NC; 6: NC; 7: GND

3. Marking:

FOQ Piezo Technik
PTOC69314
<FREQUENZ> MHz
SN<SN> <DC>LF

Specification accepted by Customer

Drawing Name: CS-09_7
Drawing No: M003-135-ME06-001

F O Q Piezo Technik

