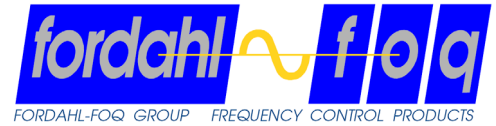


Oscillator specification: PTOC50605.001
Custom designation: 10,000 MHz OCXO



Supervision by:

Date , Sign. : 17.07.09 U. Schweickert

TYP: OCXO with 10,000000 MHz

1. Electrical Parameters

Supply / Power:

Supply Voltage: 5 V \pm 5 %
Max. Current Consumption @ 25 °C: 300 mA
Max. Current Consumption during warm up: 900 mA

Nominal Frequency (f0):

@ Reference Temperature: 10,000000 MHz
@ Reference Control Voltage: 25 °C \pm 3 °C
2 V

Temperature Range:

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

Frequency Tolerance:

Nominal Frequency Tolerance ($\Delta f/f_0$): $\leq \pm 0,2$ ppm @ $V_c = 2$ V
Tolerance vs Temperature Range 1 ($\Delta f/f$): $\leq \pm 0,025$ ppm
Tol. vs Supply Voltage ($\Delta f/f$) @ 5% Supply Change: $\leq \pm 0,01$ ppm

Aging:

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

Tuning range:

Method: External Trimmer
Control Voltage = 0 V ($\Delta f/f_0$): - 2,5 ppm ... - 0,5 ppm
Control Voltage = 2 V ($\Delta f/f_0$): - 0,2 ppm ... + 0,2 ppm
Control Voltage = 4 V ($\Delta f/f_0$): + 0,5 ppm ... + 2,5 ppm
Linearity: $\leq \pm 10$ %

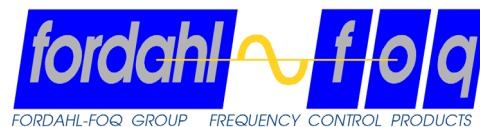
Output:

Output signal: LVTTTL
Load: 1k Ω // 15 pF
Output level: low $\leq 0,5$ V
high $\geq 2,7$ V

Reference Voltage: 4V \pm 5%

Specification accepted by Customer

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Phase noise (typical values)

at 10 Hz <= -118 dBc/Hz
at 100 Hz <= -142 dBc/Hz
at 1 kHz <= -147 dBc/Hz
at 10 kHz <= -148 dBc/Hz

Others:

2. Mechanical Data

Case:
Pin Connections:

CO-115_1
1: RF; 2: GND;3: VC;4: VRef; 5: VS

3. Marking:

FOQ Piezo Technik
PTOC50605
<FREQUENZ> MHz
SN<SN> <DC>LF

Specification accepted by Customer

Drawing Name:
Drawing No:

CO-115_1
M003-037-ME01-003

F O Q Piezo Technik

