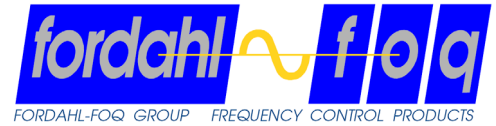


Oscillator specification: PTVC76118.007
Custom designation: VCXO 52MHz



Supervision by:

Date , Sign. : 14.07.09 U. Schweickert

TYP: VCXO with 52,000000 MHz

1. Electrical Parameters

Supply / Power:

Supply Voltage: 3,3 V \pm 5 %
Max. Current Consumption @ 25 °C: 30 mA

Nominal Frequency (f0):

@ Reference Temperature: 52,000000 MHz
@ Reference Control Voltage: 25 °C \pm 3 °C
1,65 V

Temperature Range:

Operating Temperature Range: - 40 °C ... 85 °C
Storage Temperature Range: - 40 °C ... 105 °C

Frequency Tolerance:

Nominal Frequency Tolerance ($\Delta f/f_0$): $\leq \pm 10$ ppm @ $V_c = 1,65$ V
Tolerance vs Temperature Range ($\Delta f/f$): $\leq \pm 20$ ppm
Tol. vs Supply Voltage ($\Delta f/f$) @ 5% Supply Change: $\leq \pm 3$ ppm
Tolerance vs Load ($\Delta f/f$) @ 10% Load Change: $\leq \pm 1$ ppm

Aging:

Aging Tolerance 1. Year ($\Delta f/f$): $\leq \pm 3$ ppm
Aging Tolerance after 10 Years ($\Delta f/f$): $\leq \pm 15$ ppm

Tuning Range with positive Slope:

Linearity: $\geq \pm 50$ ppm with $V_C = 0V \dots 3,3V$
Input Impedance: $\leq \pm 10$ %
 ≥ 10 M Ω

Output:

Output signal: HCMOS
Load: 10k Ω // 15 pF
Duty Cycle: 45 % ... 55 % @ $V_{S/2}$
Rise- / Fall-Time: ≤ 3 ns @ 10 % ... 90 %

Phase Noise:

100Hz: $\leq - 115$ dBc / Hz
1KHz: $\leq - 135$ dBc / Hz
10KHz: $\leq - 150$ dBc / Hz
100KHz: $\leq - 155$ dBc / Hz

Others:

Enable: High or open
Disable: Low

2. Mechanical Data

Case: CS-07_6
Pin Connections: 1: VC; 2: E/D; 3: GND; 4: RF; 5: NC; 6: VS;

3. Marking:

FOQ Piezo Technik
PTVC76118
<FREQUENZ>MHz
<SN> <DC>LF

Specification accepted by Customer

Drawing Name:
Drawing No:

CS-07_6
M003-142-ME01-001

F O Q PIEZO TECHNIK

