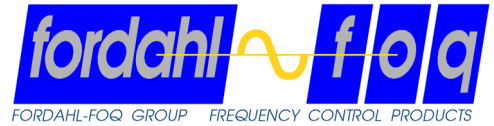


Oscillator specification: PTV75651.004
Custom designation: VCXO 307,2MHz LVPECL



Supervision by:

Date , Sign. : 14.07.09 U. Schweickert

TYP: VCXO with 307,200000 MHz

1. Electrical Parameters

Supply / Power:

Supply Voltage: 3,3 V \pm 5 %
Max. Current Consumption @ 25 °C: 80 mA

Nominal Frequency (f0):

307,200000 MHz
@ Reference Temperature: 25 °C \pm 1 °C
@ Reference Control Voltage: 1,65 V

Temperature Range:

Operating Temperature Range: - 40 °C ... 85 °C
Storage Temperature Range: - 55 °C ... 125 °C

Frequency Tolerance:

Nominal Frequency Tolerance ($\Delta f/f_0$): $\leq \pm 10$ ppm @ $V_c = 1,65$ V
Tolerance vs Temperature Range ($\Delta f/f$): $\leq \pm 25$ 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 ($\Delta f/f$): $\leq \pm 2$ ppm
Aging Tolerance after 10 Years ($\Delta f/f$): $\leq \pm 10$ ppm

Tuning range:

Control Voltage = 0 V ($\Delta f/f$): - 80 ppm ... - 180 ppm
Control Voltage = 1,65 V ($\Delta f/f$): - 10 ppm ... + 10 ppm
Control Voltage = 3,3 V ($\Delta f/f$): + 80 ppm ... + 180 ppm
Linearity: $\leq \pm 10$ %
Input Impedance: > 1 M Ω
Cut-off Frequency (3dB): > 10 kHz

Output:

Output signal: LV-PECL
Load: 50 Ω to +1,3V
Duty Cycle: 40 % ... 60 %
Rise- / Falltime: ≤ 1 ns @ 20 % ... 80 %

Phase Noise (typical values):

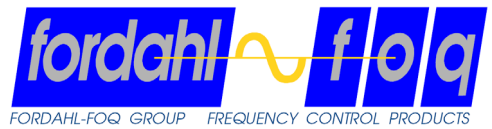
at 10 Hz $\leq - 58$ dBc/Hz
at 100 Hz $\leq - 88$ dBc/Hz
at 1 kHz $\leq - 115$ dBc/Hz
at 10 kHz $\leq - 140$ dBc/Hz
at 100 kHz $\leq - 145$ dBc/Hz

Others:

Enable: Low or Open
Disable: High

Specification accepted by Customer

Oscillator specification: PTVC75651.004
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2. Mechanical Data

Case:
Pin Connections:

CS-07_8
1: Vc; 2: EN; 3: GND; 4: RF-1; 5: RF-2; 6: Vs

3. Marking:

FOQ Piezo Technik
PTVC75651
<FREQUENZ> MHz
<SN> <DC>LF

Specification accepted by Customer

Drawing Name:
Drawing No:

CS-07_8
M003-168-ME01-000

F O Q Piezo Technik

