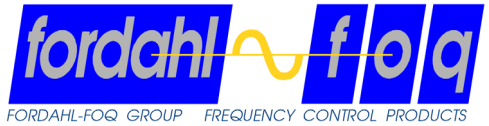


Oscillator specification: **PTVC75669.001**  
Custom designation: **SMD-VCXO 368,64M 4mm**



Supervision by:

Date , Sign. : 14.07.09 U. Schweickert

**TYP: VCXO with 368,640000 MHz**

## **1. Electrical Parameters**

### Supply / Power:

Supply Voltage: 3,3 V  $\pm$  5 %  
Max. Current Consumption @ 25 °C: 70 mA

### Nominal Frequency (f0):

368,640000 MHz  
@ Reference Temperature: 25 °C  $\pm$  3 °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 ( $\Delta f/f$ ):  $\leq \pm 20$  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 ( $\Delta f/f$ ):  $\leq \pm 2$  ppm  
Aging Tolerance after 10 Years ( $\Delta f/f$ ):  $\leq \pm 10$  ppm

### Tuning range:

Control Voltage = 0,0 V ( $\Delta f/f$ ): - 60 ppm ... - 200 ppm  
Control Voltage = 1,65 V ( $\Delta f/f$ ): - 10 ppm ... + 10 ppm  
Control Voltage = 3,3 V ( $\Delta f/f$ ): + 60 ppm ... + 200 ppm  
Linearity:  $\leq \pm 10$  %  
Input Impedance:  $> 1$  M $\Omega$

### Output:

Output signal: LV-PECL  
Load: 50  $\Omega$  to +1,3V  
Duty Cycle: 45 % ... 55 %

### Attenuation of Subharmonics:

$\geq 40$  dB

### Phase Noise (typical values):

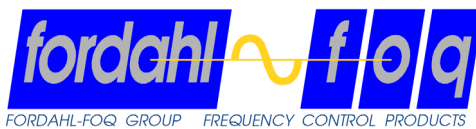
at 10 Hz  $\leq - 60$  dBc/Hz  
at 100 Hz  $\leq - 90$  dBc/Hz  
at 1 kHz  $\leq - 115$  dBc/Hz  
at 10 kHz  $\leq - 135$  dBc/Hz  
at 100 kHz  $\leq - 140$  dBc/Hz

### Others:

Enable: Low or Open  
Disable: High  
Jitter @ 12kHz ...20 MHz:  $< 0,9$  ps rms

Specification accepted by Customer

Oscillator specification: PTVC75669.001  
Custom designation: SMD-VCXO 368,64M 4mm



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## 2. Mechanical Data

Case:  
Pin Connections:

CS-07\_8  
1: Vc; 2: E/D, 3: GND; 4:RF-1; 5: RF-2; 6: Vs

## 3. Marking:

FOQ Piezo Technik  
PTVC75669  
<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

