



RoHS compliant product

Ultra 20 MHz



1. Specification	
Test conditions: $V_S = +3.3\text{ V}$, $T_A = +25\text{ °C}$ unless otherwise stated	
Nominal Frequency:	20.000000 MHz
Initial tolerance at delivery @ 25°C:	$\leq \pm 2.0\text{ ppm}$
Frequency stability in the temperature range +10 °C to +70 °C: vs. supply voltage changes $V_S \pm 5\%$: vs. load changes $\pm 10\%$:	$\leq \pm 20.0 \times 10^{-9}$ $\leq \pm 3.0 \times 10^{-9}$ $\leq \pm 3.0 \times 10^{-9}$
Aging (after 30 days of continuous operation):	$\leq \pm 1 \times 10^{-9}$ / day $\leq \pm 1 \times 10^{-7}$ / year $\leq \pm 5 \times 10^{-7}$ / 10 years
Supply Voltage V_S :	+3.3 V $\pm 5\%$
Power consumption: @ +25 °C steady state: during warm-up:	$\leq 1.5\text{ W}$ $\leq 3.0\text{ W}$
Warm-up time: @ +25 °C within $\pm 5 \times 10^{-8}$ of final frequency after 1 h:	$\leq 5\text{ min}$
Output voltage : level load :	LVHCMOS LOW < 0,4V High > 2,4V 1 kOhm // 15pF
Phase Noise: 1 Hz: 10 Hz: 100 Hz: 1 kHz: 10 kHz: 100 kHz:	<u>max.</u> $\leq -100\text{ dBc / Hz}$ $\leq -130\text{ dBc / Hz}$ $\leq -145\text{ dBc / Hz}$ $\leq -150\text{ dBc / Hz}$ $\leq -153\text{ dBc / Hz}$ $\leq -155\text{ dBc / Hz}$
Weight:	$\leq 15\text{ g}$
Temperature ranges Operating: Storage:	+10 °C ... +70 °C -40 °C ... +95 °C
2. Environmental conditions	
According to Pink Faun Product Qualification	
3. Marking	
Customized label	

4				Pink Faun high end audio Van Deventerstraat 10 3911 KH, Rheden, The Netherlands Tel. +31 317 612358 Email. info@pinkfaun.com
3	Outsignal from sinewave to LVHCMOS	22.08.2018	√	
2	Phase noise	08.08.2018	√	
1		24.05.2018	√	
ED	Description	Date	Name	