

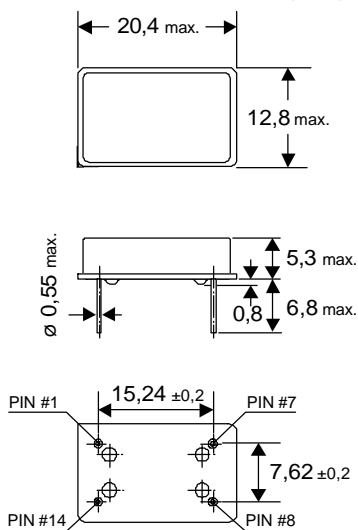
SMI

**VOLTAGE CONTROLLED CRYSTAL-OSCILLATOR
SXO-3000V**

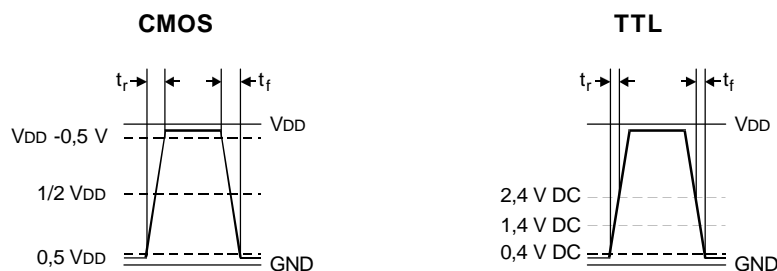


Part No.	SXO-3025V	SXO-3050V
Frequency Range	500 kHz to 38 MHz	
Frequency Stability temperature range at +5V ($V_C=+2,5V \pm 0,5V$) input voltage change aging	± 25 ppm ($\pm 0,0025\%$) ± 5 ppm ± 5 ppm/year at +25°C	± 50 ppm ($\pm 0,005\%$) ± 5 ppm ± 5 ppm/year at +25°C
Operating Conditions Operating Temperature Storage Temperature Input Voltage (V_{DD}) Control Voltage (V_C)	-10°C to +70°C -55°C to +125°C +5V DC $\pm 0,5V$ +2,5V DC $\pm 2,0V$	
Input Current	15 mA max.	
Output (-10°C to +70°C) Symmetry Rise and fall times 0,4V to 2,4V DC level or 0,5V to V_{DD} -0,5V DC "0" level "1" level Load	50% $\pm 10\%$ at $\frac{1}{2} V_{DD}$ or +1,4V DC level 10 ns max. 500 kHz to 20,0 MHz 8 ns max. 20,0 MHz to 38,0 MHz +0,5V (CMOS) or +0,4V max. (TTL) V_{DD} -0,5V min. (CMOS) or +2,4V min. (TTL) 15 pF (CMOS) or 1 to 2 TTL gates (TTL)	
Frequency Control at V_{DD} ($V_C = +2,5V$ DC $\pm 2,0V$)	± 50 ppm SXO-3000VA ± 100 ppm SXO-3000VB ± 150 ppm SXO-3000VC	
Start-up Time	10 ms max. 8,0 to 20,0 MHz 7 ms max. 20,0 to 38,0 MHz	

OUTLINE DIMENSIONS (mm)



OUTPUT WAVEFORM



TEST CIRCUIT CMOS

PIN	CONNECTION
1	V_C
7	GND
8	OUTPUT
14	V_{CC}

