

actual size

Oscillator - HO532(5.0V)

SMD Oscillator with Stop Function · 5.0 x 3.2 mm

- reflow soldering temperature: 260 °C max.
- ceramic/metal package



General Data

type	HO532 5.0V	
frequency range	0.50 ~ 110.0 MHz (15pF max.)	
	0.50 ~ 50.00 MHz (30pF max.)	
frequency stability over all*	± 20 ppm ~ ± 100 ppm (table 1)	
current consumption	see table 2	
supply voltage V _{DC}	5.0 V ± 5%	
temperature	operating	-10 °C ~ +70 °C / -40 °C ~ +85 °C
	storage	-55 °C ~ +125 °C
output	rise & fall time	see table 3
	load max.	15pF / 30pF
	current max.	8mA
	low level max.	0.1 x V _{DC}
	high level min.	0.9 x V _{DC}
output enable time max.	10ms	
output disable time max.	100ns	
start-up time max.	10ms	
standby function	stop	
standby current max.	10µA	
phase jitter 12 kHz ~ 20.0 MHz	< 1.0ps RMS	
symmetry at 0.5 x V _{DC}	45% ~ 55% typ. (40% ~ 60% max.)	

Table 1: Frequency Stability Code

stability code	A	B	G	C	D
	± 100 ppm	± 50 ppm	± 30 ppm	± 25 ppm	± 20 ppm
-10 °C ~ +70 °C		●	○	○	△
-40 °C ~ +85 °C	●	●	○	○	

● standard ○ available △ excludes aging

* includes stability at 25 °C, operating temp. range, supply voltage change, shock and vibration, aging 1st year.

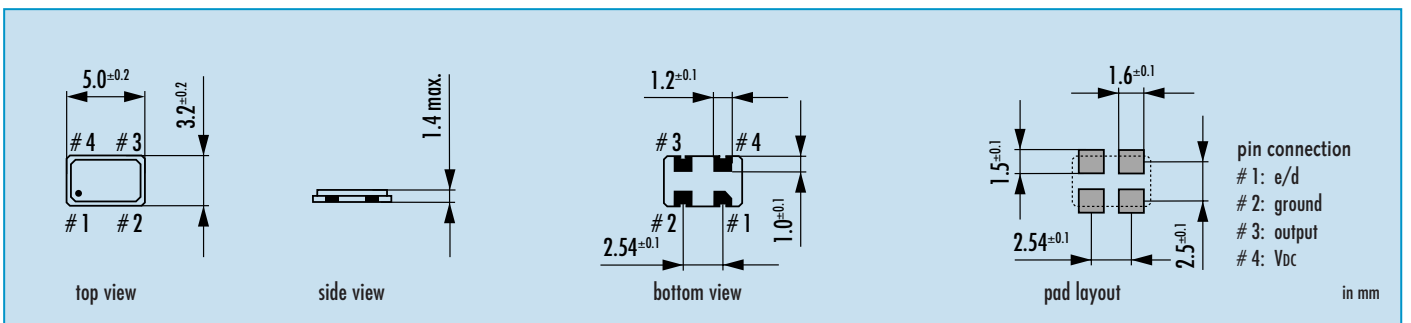
Table 2: Current Consumption max.

Current at 15pF load		Current at 30pF load	
0.5 ~ 14.9 MHz	10 mA	0.5 ~ 14.9 MHz	15 mA
15.0 ~ 29.9 MHz	15 mA	15.0 ~ 29.9 MHz	20 mA
30.0 ~ 39.9 MHz	25 mA	30.0 ~ 50.0 MHz	40 mA
40.0 ~ 49.9 MHz	35 mA		
50.0 ~ 59.9 MHz	40 mA		
60.0 ~ 79.9 MHz	45 mA		
80.0 ~ 110.0 MHz	50 mA		

Table 3: Rise & Fall Time max.

6 ns: 0.5 ~ 1.79 MHz	note: - specific data on request - rise time: 0.1 V _{DC} ~ 0.9 V _{DC} - fall time: 0.9 V _{DC} ~ 0.1 V _{DC}
5 ns: 1.80 ~ 49.99 MHz	
4 ns: 50.0 ~ 110.00 MHz	

Dimensions



Taping Specification

