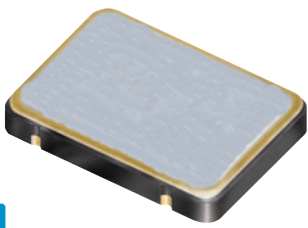


Oscillator - HO750(3.3V)



actual size

SMD Oscillator with Stop Function · 7.5 x 5.0 mm

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



General Data

type	HO750 3.3V	
frequency range	1.0 ~ 170.0 MHz (15pF max.)	
	1.0 ~ 80.0 MHz (30pF max)	
frequency stability over all*	± 20ppm ~ ± 100ppm (table 1)	
current consumption	see table 2	
supply voltage V _{DC}	3.3 V ± 10%	
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.	200ns	
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 shock and vibration

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

Table 2: Current Consumption max.

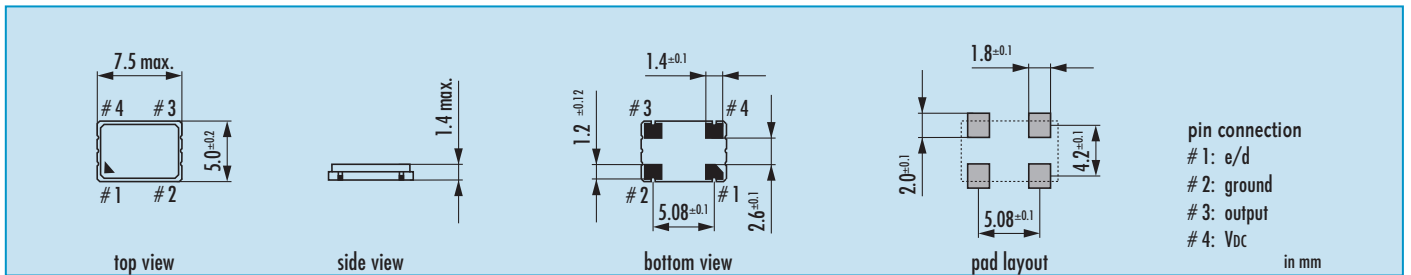
Current at 15pF load		Current at 30pF load	
1.0 ~ 19.9 MHz	8 mA	1.0 ~ 19.9 MHz	15 mA
20.0 ~ 49.9 MHz	15 mA	20.0 ~ 49.9 MHz	25 mA
50.0 ~ 79.9 MHz	25 mA	50.0 ~ 80.0 MHz	35 mA
80.0 ~ 99.9 MHz	35 mA		
100.0 ~ 124.9 MHz	45 mA		
125.0 ~ 170.0 MHz	60 mA		

Table 3: Rise & Fall Time max.

6.0 ns: 1.0 ~ 9.9 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}
5.0 ns: 10.0 ~ 39.9 MHz	
4.0 ns: 40.0 ~ 69.9 MHz	
3.0 ns: 70.0 ~ 170.0 MHz	

note: Suffix "X" includes 10 years aging, for A, B, G available.

Dimensions



Taping Specification

