

## SURFACE MOUNT CLOCK OSCILLATOR

### DFN S5-K (5 V) & DFN S5-L (3.3 V)

#### KEY FEATURES

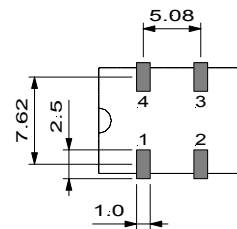
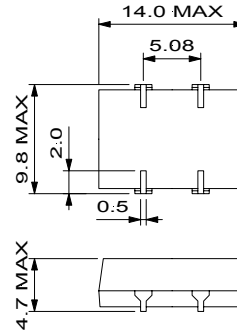
1 to 70 MHz

HCMOS/TTL compatible output

5 or 3.3 V supply available

#### APPLICATIONS

Clocking/Datacomms



PC board footprint

Function	DFN S5
Tri-state or N/C	1
GND	2
Output	3
Vcc	4

TYPE	DFN S5-KH	DFN S5-LH
Frequency Range	1 to 70 MHz	1 to 70 MHz

ELECTRICAL SPECIFICATIONS		DFN S5-KH	DFN S5-LH
supply voltage		5 V ± 10 %	3.3 V ± 10 %
supply current (no load)	≤ 25 MHz	≤ 25 mA	≤ 10 mA
	≤ 50 MHz	≤ 40 mA	≤ 20 mA
	> 50 MHz	≤ 50 mA	≤ 35 mA
output load		HCMOS 50 pF or 10 TTL up to 40 MHz HCMOS 15 pF or 5 TTL > 40MHz	HCMOS 15 pF
duty cycle		40/60...60/40 % @ 50% level	40/60...60/40 % @ 50% level
rise/fall times (HCMOS @ 15 pF load)		20 to 80 % : ≤ 8 ns	20 to 80 % : ≤ 8 ns
high/low levels		≥ 4.5 V / ≤ 0.5 V	≥ 2.7 V / ≤ 0.4 V
start up		≤ 10 ms @ 4.5 V	≤ 10 ms @ 3.0 V

FREQUENCY STABILITY		stability [ ppm ] and temperature code			
types	temperature range	stability	code	stability	code
all types	0 to 70°C	≤ ± 50	XB50	≤ ± 100	XB100
	-40 to 85°C	≤ ± 50	XE50	≤ ± 100	XE100
remarks		includes calibration at 25°C, temperature, ageing, Vcc and load changes 1 <sup>st</sup> year			

OPTIONS	CODE		
tight symmetry	R	45/55...55/45 %	45/55...55/45 % ( f ≤ 64 MHz )
tri-state output on pin 1	Z	high or open = enable, low = high Z	

ORDERING CODE	type + option code + frequency + temperature code
Example	DFN S5-KHZ 49.152 MHz XB50

**IMPORTANT NOTE** THIS PRODUCT IS DESIGNED FOR VOLUME APPLICATION ONLY