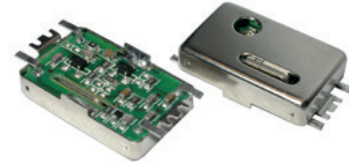


# C18CT HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

## FEATURES

- Metal SMD case
- Wide frequency range
- Mechanical trimmer option
- Applications: Reference clock, Test equipment,...

18.3 x 11.7 x 4.5 mm



Item	Specification						
Frequency Range	1.0 MHz to 125.0 MHz						
Output Logic	CMOS						
Supply Voltage V <sub>dd</sub> (see options)	+3.3 V ±5%		+5.0 V ±5%				
Supply Current I <sub>dd</sub>	40.0 mA max., frequency dependent						
Frequency Tolerance	±1.0 ppm max. at 25°C ±2°C (one hour after reflow)						
Frequency Stability vs Temperature ( see options )		±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm
	0° to +50°C	o	o	o	o	o	o
	-10° to +60°C	◇	o	o	o	o	o
	-20° to +70°C	x	o	o	o	o	o
	-30° to +75°C	x	◇	o	o	o	o
	-30° to +85°C	x	◇	◇	o	o	o
	-40° to +85°C	x	◇	◇	o	o	o
o = available		◇ = please contact us			x = not available		
Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C						
Frequency Stability vs Voltage Change	±0.3 ppm max., for a ±5% input voltage change						
Frequency Stability vs Load Change	±0.3 ppm max., for a ±10% load condition change						
Output Level	VOH ≥ 0.9 V <sub>dd</sub>			VOL ≤ 0.1 V <sub>dd</sub>			
Output Load	15 pF						
Symmetry	45 / 55%						
Rise Time / Fall Time Fr / Ff	10 ns max.						
Start-up Time	5 ms typ., 10 ms max.						
Phase noise	Offset / dBc / Hz	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
	(typical)						
	10.000 MHz	-95 dBc / Hz	-130 dBc / Hz	-140 dBc / Hz	-145 dBc / Hz	-150 dBc / Hz	
20.000 MHz	-80 dBc / Hz	-120 dBc / Hz	-135 dBc / Hz	-140 dBc / Hz	-145 dBc / Hz		
Mechanical Frequency Tuning ( see options )	±3.0 ppm min. tuning						
Packing Unit	800 pcs / reel						
Soldering Conditions	260°C, 10 sec x2 max						

**Customer specifications on request**

## OPTIONS & ORDERING INFORMATION

### C18CT

Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package Type	Frequency in MHz	Mechanical Tuning
<b>33</b> = +3.3V	<b>C</b> = 0° / +50°C	<b>0.5</b> = ±0.5 ppm	<b>F</b> = No Tri-state	<b>4P</b> = 4-pad version	Please specify the frequency in MHz	<b>-T</b> = Trimmer option
<b>50</b> = +5.0V	<b>D</b> = -10° / +60°C	<b>1.0</b> = ±1.0 ppm				
	<b>F</b> = -20° / +70°C	<b>1.5</b> = ±1.5 ppm				
	<b>G</b> = -30° / +75°C	<b>2.0</b> = ±2.0 ppm				
	<b>H</b> = -30° / +85°C	<b>2.5</b> = ±2.5 ppm				
	<b>K</b> = -40° / +85°C	<b>3.0</b> = ±3.0 ppm				

(\*) Note : Not all combinations are possible, please consult us.

## OUTLINE DIMENSIONS



Pin Connections	#1 : NC	#2 : GND	#3: Output	#4 : Vdd
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