

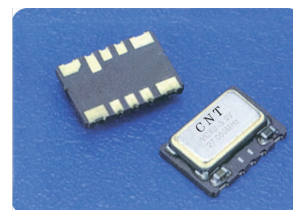


TEMPERATURE COMPENSATED SMD CRYSTAL OSCILLATOR 7.0×5.0

FEATURES

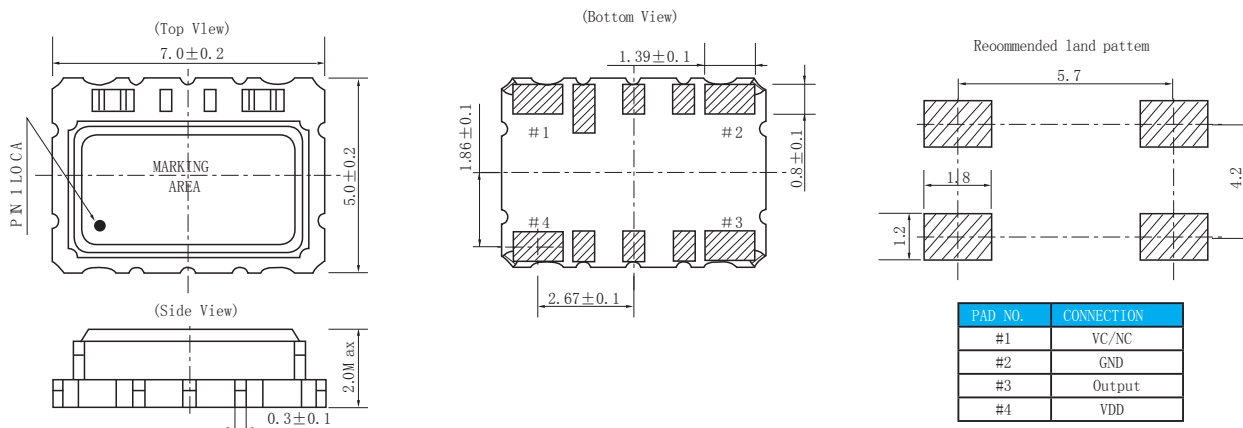
- Stability up to $\pm 0.5\text{ppm}$
- Control voltage range $\pm 10\text{ppm Max}$
- Clipped sine wave output
- Miniature package

SPECIFICATIONS



ITEM		DESCRIPTION	
Frequency range		10.000MHz~40.000MHz	
Supply Voltage(VDD)		5.0V DC $\pm 10\%$	3.3V DC $\pm 10\%$
Supply Current	10.000MHz~14.999MHz	1.5mA Max	
	15.000MHz~25.999MHz	2.0mA Max	
	26.000MHz~40.000MHz	2.5mA Max	
Operating Temperature Range		$-10^{\circ}\text{C}\sim+60^{\circ}\text{C}$, $0^{\circ}\text{C}\sim+70^{\circ}\text{C}$, $-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$, $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$ or specify	
Frequency Stability Over Operating Temp Characteristics		$\pm 0.5\text{ppm} \sim \pm 5\text{ppm}$ or specify	
Storage Temperature Range		$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	
Output Wave		Clipped Sine Wave	
Output Level		0.8V (peak to peak Min)	
Load		10K Ω // 10pf $\pm 10\%$	
Frequency Stability	Supply Voltage Change	$\pm 5\%$	$\pm 0.2\text{ppm}$
	Load Change	$\pm 10\%$	$\pm 0.2\text{ppm}$
Frequency Control	Range	$\pm 5\text{ppm}$, $\pm 10\text{ppm}$ or specify	
	Center Control Voltage	$V_c=2.5\text{V DC}$	$V_c=1.65\text{V DC}$
	Control Voltage	0.5V DC to 4.5V DC	0.3V DC to 3.0V DC
Aging ($25^{\circ}\text{C} \pm 3^{\circ}\text{C}$)		$\pm 1\text{ppm/year}$	
Start Up Time		2ms Max	
Input Impedance		1M Ω	

OUTLINE DIMENSIONS (mm)



PART NUMBER

TIM-	TCS7050	H	16.000000	± 5	± 1.5	$-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$	5.0
	Type	Molde Type	Frequency(MHz)	Control voltage range (ppm)	Frequency stability (ppm)	operating temperature range	Supply voltage(v)
	TCS:TCXO SMD		16.000000:	$\pm 5: \pm 5\text{ppm}$			5.0:5.0V DC
	VTS:VC-TCXO SMD	H:Clipped sine wave	16.000000MHz	N:TCXO no voltage control function	$\pm 1.5: \pm 1.5\text{ppm}$		3.3:3.3V DC