

VOLTAGE CONTROLLED CRYSTAL OSCILLATOR (VCXO)

FEATURES

- Stability up to $\pm 5\text{ppm}$
- Control voltage range $\pm 200\text{ppm}$ Max
- CMOS/TTL compatible output
- All metal, hermetically sealed welded package

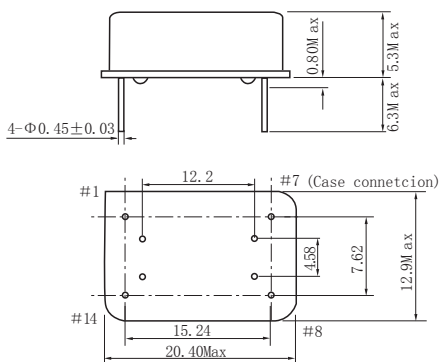


SPECIFICATIONS

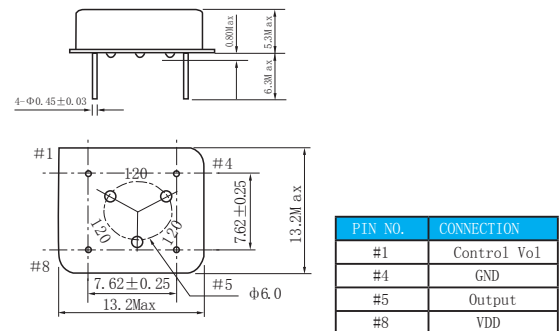
ITEM		DESCRIPTION	
Frequency range		1.000MHz~80.000MHz	
Module Type		Full Size or Half Size	
Supply Voltage (V_{DD})		5.0V DC $\pm 10\%$	3.3V DC $\pm 10\%$
Supply Current		$\leq 30\text{MHz}$ 30mA Max, $> 30\text{MHz}$ 45mA Max	
Operating Temperature Range		$0^\circ\text{C} \sim +70^\circ\text{C}$ or specify	
Frequency Stability Over Operating Temp Characteristics		$\pm 10\text{ppm} \sim \pm 50\text{ppm}$ or specify	
Storage Temperature Range		$-55^\circ\text{C} \sim +125^\circ\text{C}$	
Frequency Control	Pullability	Positive Transfer Characteristic	
	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
Output Character	"0" Level (Vol Max)	0.5V (10%VDD) Max	0.3V (10%VDD) Max
	"1" Level (Voh Min)	4.5V (90%VDD) Min	3.0V (90%VDD) Min
	Rise Time (T_r)	10%~90%VDD 5ns Max	
	Fall Time (T_f)	90%~10%VDD 5ns Max	
	Symmetry	40%~60% or 45%~55% Option (at 50%VDD)	
Output Load		15pf, 30pf, 50pf Max or specify	
Aging ($25^\circ\text{C} \pm 3^\circ\text{C}$)		$\pm 3\text{ppm/year}$	
Start Up Time		7~10ms Max	

OUTLINE DIMENSIONS (mm)

FULL SIZE/14PIN DIP TYPE



HALF SIZE/8PIN DIP TYPE



PART NUMBER

TIM-	VCF	A	16.000000	± 50	± 10	$-20^\circ\text{C} \sim +70^\circ\text{C}$	5.0
Type		Module Type	Frequency (MHz)	control Voltage Range	Frequency stability	operating temperature range	Supply voltage (v)
VCF: Full size		A: CMOS/TTL	16.000000:	(ppm)	(ppm)		5.0: 5.0V DC
VCH: Half size		B: CMOS	16.000000MHz	$\pm 50: \pm 50\text{ppm}$	$\pm 10: \pm 10\text{ppm}$		3.3: 3.3V DC
		C: TTL					