



TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR (TXCO or VC-TCXO)

FEATURES

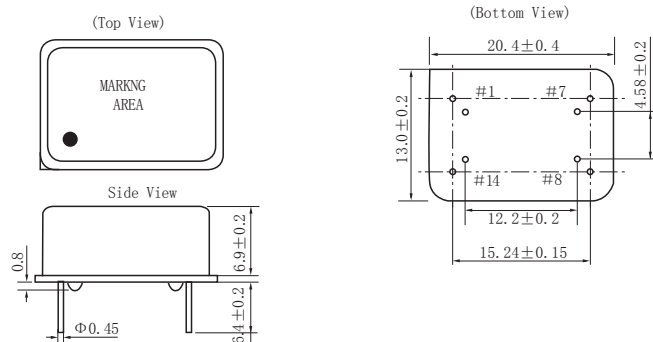
- Stability up to ± 0.5 ppm
- Control voltage range ± 10 ppm Max
- CMOS/TTL compatible output
- Low aging



SPECIFICATIONS

ITEM		DESCRIPTION	
Frequency range		1.000MHz~80.000MHz	
Supply Voltage (VDD)		5.0V DC $\pm 10\%$	3.3V DC $\pm 10\%$
Supply Current	1.000MHz~14.999MHz	15mA Max	10mA Max
	15.000MHz~25.999MHz	20mA Max	15mA Max
	25.000MHz~80.000MHz	25mA Max	20mA Max
Operating Temperature Range		$-10^{\circ}\text{C}\sim+60^{\circ}\text{C}$, $0^{\circ}\text{C}\sim+70^{\circ}\text{C}$, $-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$ or specify	
Frequency Stability Over Operating Temp Characteristics		± 0.5 ppm ~ ± 5 ppm or specify	
Storage Temperature Range		$-55^{\circ}\text{C}\sim+125^{\circ}\text{C}$	
Frequency Adjustment		$\pm 1\sim\pm 5$ ppm (by mechanical or electrical)	
F-V Stability	Supply Voltage Change	$\pm 5\%$	
	Frequency Stability Range	± 0.2 ppm	
Frequency Control	Center Control Voltage	$V_c=2.5$ V DC	$V_c=1.65$ V DC
	Control Voltage	0.5V DC to 4.5V DC	0.3V DC to 3.0V DC
	Control Voltage Range	± 5 ppm or specify	
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 (Tr)	10%~90%VDD 5~10ns Max	
	Fall Time (Tf)	90%~10%VDD 5~10ns Max	
	Symmetry	45%~55% (at 50%VDD)	
Output Load		15pf, 30pf, 50pf Max or specify	
Aging ($25^{\circ}\text{C}\pm 3^{\circ}\text{C}$)		$\pm 1\sim 3$ ppm/year	
Start Up Time		2ms Max	
Input Impedance		1M Ω	

OUTLINE DIMENSIONS (mm)



PIN NO.	CONNECTION
#1	Control Vol/NC
#7	GND
#8	Output
#14	VDD

PART NUMBER

TIM-	TC	A	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)	
TC: TCXO	A: CMOS/TTL B: CMOS	16.000000;	$\pm 5: \pm 5$ ppm N: TCXO no voltage control function	$\pm 1.5: \pm 1.5$ ppm		5.0: 5.0V DC 3.3: 3.3V DC	
VT: VC-TCXO	C: TTL	16.000000MHz					