



Voltage Controlled Crystal Oscillator

FEATURE

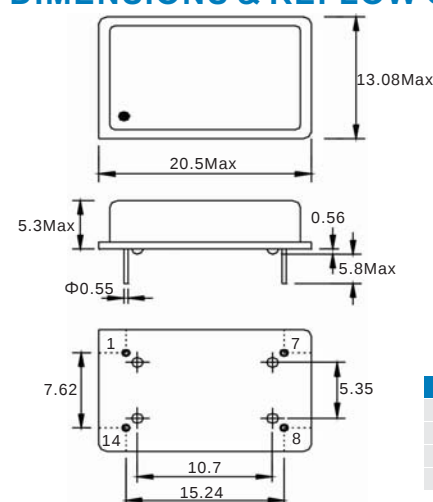
- Wide Pullability Available.
- Tight Symmetry Option.
- Tight Stability and Wide Pull Range.



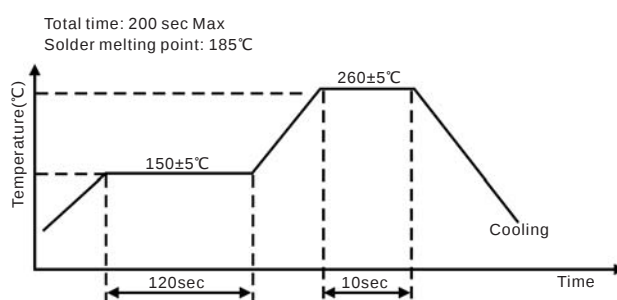
ELECTRICAL SPECIFICATIONS

Model Type		VCXOF(Full Size)		VCXOH(Half Size)	
Frequency Range		1.8432MHz ~ 45.000MHz			
Overall Frequency Stability		±25ppm ~ ± 100ppm (Inclusive of Operating Temp, Supply Voltage & Load)			
Operating Temperature		-10°C ~ +60°C to -40°C ~ +85°C			
Storage Temperature		-40°C ~ +85°C / -55°C ~ +125°C			
Supply Voltage		5.0V	3.3V	5.0V	3.3V
Input Current Max	1.8432~23.999MHz	25mA	15mA	30mA	15mA
	24.000~45.000MHz	45mA	30mA	50mA	30mA
Output Voltage	V _{OL} (Max) TTL/HCOMS	0.4V _{DC} / 0.5V _{DC}	0.4V _{DC}	0.4V _{DC} / 0.5V _{DC}	0.4V _{DC}
	V _{OH} (Min) TTL/HCOMS	2.4V _{DC} / 4.5V _{DC}	2.4V _{DC} / 4.7V _{DC}	2.4V _{DC} / 4.5V _{DC}	2.4V _{DC} / 4.7V _{DC}
Symmetry (Duty Cycle)		40/60% Std. / 45/55% Available			
Rise/Fall Time		10ns Max <5ns Typical			
Start Time		10ms Max <5ms Typical			
Aging @25°C 1 st year (Max)		±3ppm, ±5ppm/year			
Output Load		10TTL or 15pF HCMOS			
Voltage Control		+2.5V	+1.65V	+2.5V	+1.65V
Voltage Control Range		+0.4V ~ +4.5V	+0.3V ~ 3.0V	+0.5V ~ +4.5V	+0.3V ~ 3.0V
Transfer Function		Positive Transfer(Increasing Control Voltage, Increase Output Frequency)			
Frequency Pulling Range		±50ppm ~ ± 200ppm			

DIMENSIONS & REFLOW CONDITION

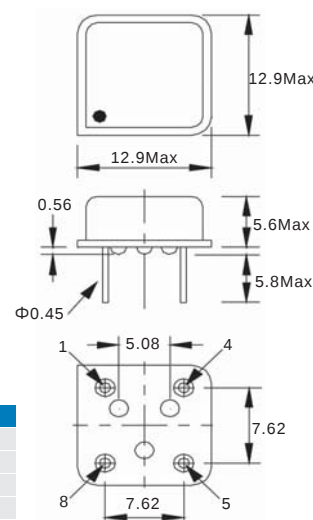


Full Size



PIN	Connection
#1	N.C/Control
#7	GND
#8	Output
#14	+5.0V _{DC}

PIN	Connection
#1	N.C/Control
#4	GND
#5	Output
#8	+5.0V _{DC}



Half Size

PART NUMBER

GMK-VCXOF- VCXOH-	25.000	50	3.3	S	B	100
	Frequency 25.000MHz	Overall Freq. Stability 50ppm	Supply Voltage 5:5.0V 3.3:3.3V	Symmetry: S:40/60% T:45/55%	Operating Temp A:-10~60°C B:-20~70°C C:-40~85°C	Pullability 100ppm