



CM200S Series (8.0x3.8x2.5mm)

32.768KHz



The tuning fork type quartz crystal provides ultimate in size, performance and economic tradeoffs. So, it is used as a clock source in communication equipment, measuring instruments, microprocessors and other time management applications.

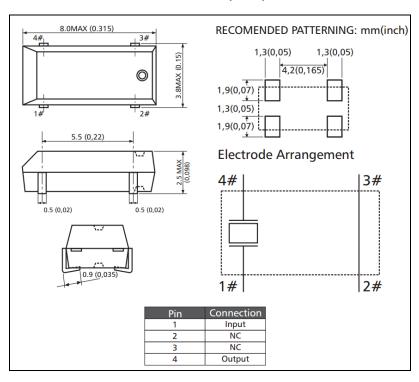
FEATURES

- Miniature Package
- Low Cost
- KHz Frequency
- Tight Tolerance

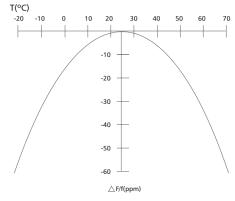
Electrical Specifications

Parameter	Symbol	Condition	Min	Тур	Max	Units
Frequency Range	F ₀		32.768		32.768	KHz
Frequency Tolerance	$\Delta F/F_0$	at 25°C	±5	±20	±100	PPM
Temperature Stability	T _C	Ref to 25°C			-0.034±0.005	PPM/(∆°C) ²
Operating Temperature Range	T _{OPR}		-40	-10 to +60	+85	°C
Storage Temperature Range	T _{STG}		-40		+85	°C
Shunt Capacitance	C ₀			1.3	2	pF
Load Capacitance	C_L	Customer Specified	6	12.5	Series	pF
Insulator Resistance	I_R	100 V _{DC}	500			МΩ
Drive Level	D _L				1.0	μW
Aging	Fa	at 25°C, per year	-3.0		+3.0	PPM
Equivalent Series Resistance (ESR)	Rs				50	ΚΩ

Mechanical Dimensions – mm (inch)



Parabolic Temperature Curve



To determine frequency stability, use parabolic curvature(k).