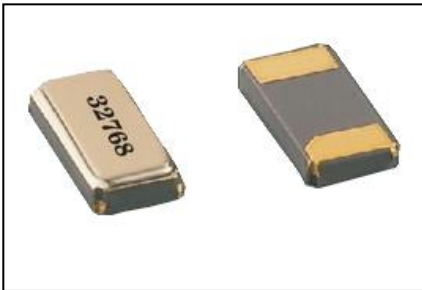


S1610 Series (1.6x1.0x0.5mm)

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	Typ	Max	Units
Frequency Range	F_0		32.768		32.768	KHz
Frequency Tolerance	$\Delta F/F_0$	at 25°C	±10	±20	±100	PPM
Temperature Stability	T_C	Ref to 25°C			-0.03±0.005	PPM/(Δ°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		pF
Load Capacitance	C_L	Customer Specified	6	12.5	Series	pF
Insulator Resistance	I_R	100 V _{DC}	500			MΩ
Drive Level	D_L		0.1		0.5	μW
Aging	F_a	at 25°C, per year	-3.0		+3.0	PPM
Equivalent Series Resistance (ESR)	R_s				90	KΩ

Mechanical Dimensions – mm (inch)

