

FCom Tuning Fork Crystal

Series FCT-3M-A

AEC-Q200 Automotive 32.768 kHz Crystal 3.2×1.5 mm



Feature

- Ultra small size 3.2×1.5×0.75mm
- High reliability environmental performance
- High frequency stability and high precision
- RoHS and REACH Compliant , Pb-free
- AEC-Q200 Compliant for Automotive RTC

Application

- Real Time Clock for automotive
- System in sleep mode or low energy mode Timekeeping

ELECTRICAL SPECIFICATIONS

Parameters	Symbol	Min.	Typ.	Max.	Units	Notes
Nominal Frequency	F	32.768			kHz	Test condition Ambient temperature: $25 \pm 5^{\circ}\text{C}$ Relative humidity: $40\% \sim 70\%$
Frequency Tolerance (at 25°C)	FT	$\pm 10, \pm 20, \pm 30$			ppm	
Operating Temperature	Topr	-40	25	125	$^{\circ}\text{C}$	
Load Capacitance	CL	6, 7, 9, 12.5 or specify			pF	
Drive Level	DL	-	0.1	0.5	μW	
Equivalent Series Resistance	ESR	-	-	70	Kohm	
Shunt Capacitance	C0	1.6			pF	
Temperature Coefficient	-	-0.036 ± 0.005			ppm/ T^2	
Insulation Resistance	-	500	-	-	Mohm	
Aging	-	± 3			ppm	1st Year

Note : The table shows common spec. if you have special spec. requirement , please feel free to contact our salesperson.

DIMENSION(mm)

