

2 x 6 Series

2.0 x 6.0mm Watch crystal



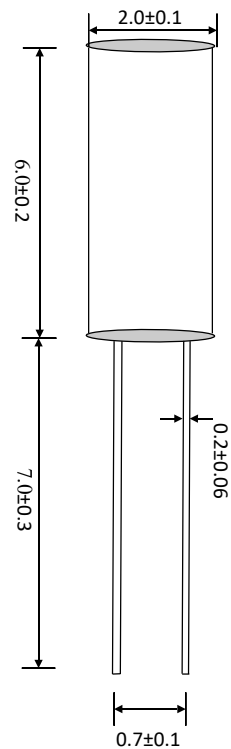
REACH and RoHS compliant
Cylinder type through hole watch crystal



Parameters	Specification		Remarks
Frequency	F_nom	32.768kHz	
Frequency tolerance	F_tol	±10ppm, ±20ppm, ±50ppm	At 25°C ± 3°C, For ±5ppm please enquire
Operating temperature range	T_use	-10°C ~ +60°C, -20°C ~ +70°C, -40°C ~ +85°C	
Storage temperature	T_stg	-40°C ~ +85°C	
Temperature coefficient	K	-0.035±0.0086ppm/°C ²	
Turnover temperature	Ti	25°C ± 5°C	
Load capacitance	CL	6pF ~ 12.5pF	
Equivalent series resistance	ESR	35kΩ max	
Motional capacitance	C1	2.8fF typical	
Shunt capacitance	C0	1.45pF typical	
Quality factor	Q	50,000	
Drive level	DL	1.0μW max	
Frequency aging	F_age	±5.0ppm max	First year
Insulation resistance	IR	500MΩ min	At DC100V ± 15V
Moisture sensitivity level	MSL	1 (unlimited)	
Electrostatic discharge	ESD	Not applicable	

Part number generation						
PE	00003	G	I	H	D	-PF
ACT Series Code	Frequency (KHz)	Frequency Tolerance (±ppm)	Operating Temperature Range (°C)	Load capacitance (CL)	Packaging (Tape & Reel)	RoHS
PE	32.768kHz = 00003	±10 = C ±20 = G ±50 = N ±100 = P	-10 ~ +60 = B -20 ~ +70 = D -40 ~ +85 = I	6.0pF = N 7.0pF = M 9.0pF = K 12.5pF = H	Loose = L	RoHS = -pF
Notes: 1. It is important to suffix the above part number with full frequency required to give a completed part number as illustrated below. Full Example Part Number : PE00003GIHD-PF [32.768kHz]						

Dimensions (unit : mm)



Soldering guide

Lead should be soldered within 10 seconds with a tip temperature not exceeding 270°C. The device should be ideally be mounted upright on the PCB.

Drawing control: (Internal use only)
Commodity code : 854160 00 00
Issue number : N2
Date : 01/02/2021
Internal reference : H3

Frequency vs temperature stability

