

2 x 6 Series

2.0 x 6.0mm Watch crystal



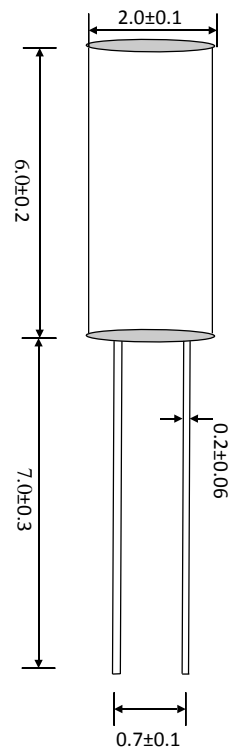
REACH and RoHS compliant
Cylinder type through hole watch crystal



| 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 : N1
Date : 01/02/2017
Internal reference : C1b

Frequency vs temperature stability

