

C26(SM) and C38 SERIES

- Tuning Fork Watch Crystals
- 2mm x 6mm Cylindrical
- 3mm x 8mm Cylindrical
- 32.768KHz Only



ASCEND

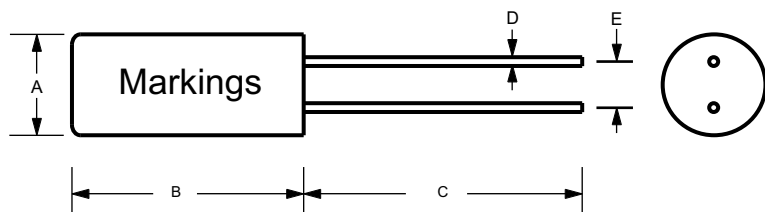
FREQUENCY DEVICES

Electrical Specifications

Frequency Range:	32.768KHz
Frequency Tolerance/Stability:	±20ppm (see additional options below) / $-.034(\pm.006)\text{ppm}/^\circ\text{C}(T-T_0)^2$
Turnover Temperature (To):	25°C±5°C
Operating Temperature Range:	See part numbering guide options below
Storage Temperature Range:	-40°C to +85°C
Aging:	±3ppm / first year Maximum
Shunt Capacitance:	1.00pF Maximum
Load Capacitance:	12.5pF, 6pF or 8pF
Equivalent Series Resistance:	35k Ohms Maximum
Drive Level:	1µWatts Maximum
Motional Capacitance:	3.0fF Typical (C26 Series); 3.5fF Typical (C38 Series)
Capacitance Ratio:	450 Typical (C26 Series); 460 Typical (C38 Series)
Quality Factor:	70K Typical (C26 Series); 90K Typical (C38 Series)
Insulation Resistance::	500M ohms minimum / DC 100V ±15V
Hermeticity of Seal::	1×10^{-2} mPa (m³/s) Maximum
Shock Resistance::	±5ppm Maximum (drop test onto a hard wooden board from 75cm)

Mechanical Dimensions

C26/C38

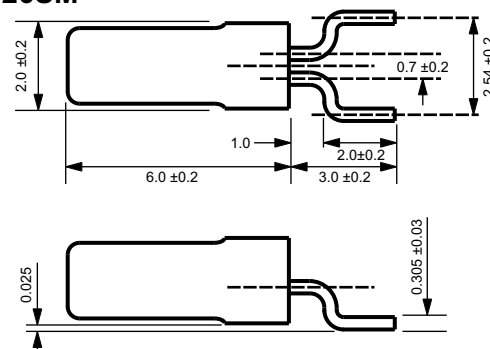


SERIES	A	B	C	D	E
C26	2.10	6.20	10.00	0.26	0.70
C38	3.10	8.20	10.00	0.35	1.10
C26SM	See Mechanical Dimensions on the right				

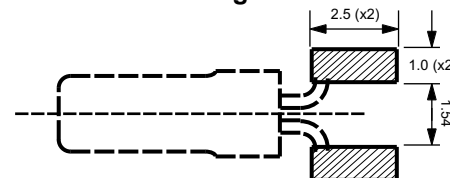
MARKING
Line 1: 32.768KHz

ALL DIMENSIONS
IN MILLIMETERS

C26SM



Soldering Pattern



Part Numbering Guide

C26 06 C 3 - 32.768K

Series

C26 Series (Watch Crystal 2mm x 6mm)
C26SM Series (SMD Watch Crystal 2mm x 6mm)
C38 Series (Watch Crystal 3mm x 8mm)

Load Capacitance

Blank = 12.5pF
06 = 6pF
08 = 8pF

Tolerance

Blank = ±20PPM
B = ±15PPM
C = ±10PPM

Frequency

K = KHz

Temperature Range

Blank = -40°C to +85°C
1 = 0°C to +70°C
2 = -20°C to +70°C
3 = -30°C to +70°C
4 = -30°C to +85°C