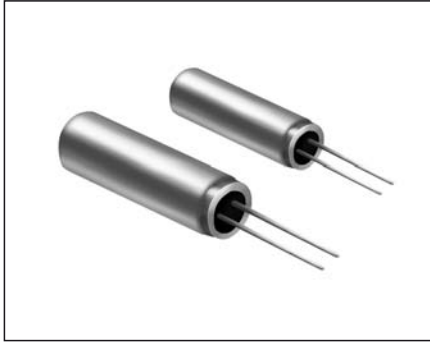


# Tuning Fork

Type: KHz Range Crystal Unit 2T(2X6), 3T(3X8)



## ■ Features

- High Reliability, Low Cost Crystal
- Tight Stability & Extended Temperature Available
- Lead-free Type
- Form Lead SMD Type available
- Automotive Applications, please contact our sales representative

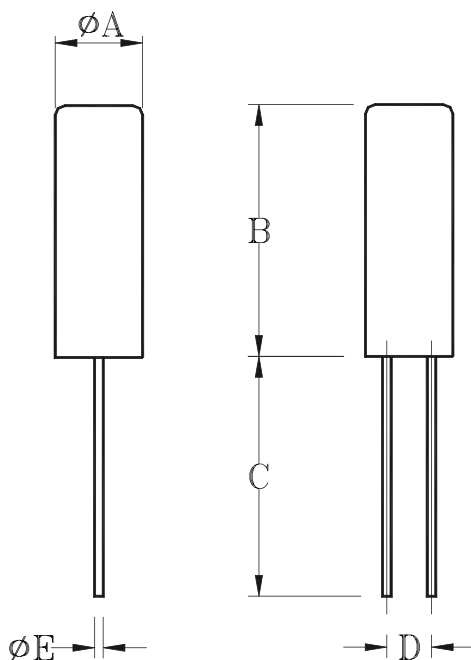
## ■ Standard Specification

Item	2T (2x6)	3T (3x8)
Frequency Range	30.0kHz ~ 70.0KHz	30.0kHz ~ 165KHz
Equivalent Series Resistance ESR/Rs (Measured at Series Resonance)	30KOhm ~ 50KOhm	
Frequency Tolerance at 25 °C	±30PPM is standard, but tight tolerances also available	
Frequency Stability Over Operating Temperature Range (refer to 25 °C)	±50PPM is standard, but tight tolerances also available	
Operating Temperature Range	-10°C ~ +60 °C (standard), or specify	
Storage Temperature Range	-40 °C ~ +85 °C	
Load Capacitance	12.5pF is standard, or specify	
Shunt Capacitance	5.0pF MAX	
Drive Level	1μW MAX	
Insulation resistance DC100V±15V	500M Ohm MIN	
Aging	±5ppm/Year	
Sealing	1x10 <sup>-2</sup> μ Pa.m <sup>-3</sup> /s MAX	
Shock Resistance	±5ppm MAX	

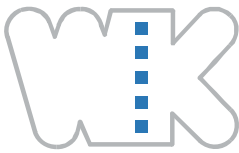
※ Specification subject to change without prior notice.

※ For any requirements other than the above table, please contact our sales.

## ■ Dimensions (mm)



ITEM	DIMENSION	
	TYPE 3X8	TYPE 2X6
A	3.00±0.2	1.8±0.2
B	8.00±0.2	6.0±0.2
C	9.0 MIN	5.0 MIN
D	1.1±0.1	0.75±0.1
E	0.30	0.25



## Order Code Tuning Fork Crystals Series 2T, 3T

### 3T K

type	frequency (kHz)	tolerance @+25°C	load cap.	mode	temp. range	temp. tol.	manufacturers code
	e.g. 32.768 kHz = K0327680						
		A = ±5ppm B = ±10ppm C = ±15ppm D = ±20ppm E = ±30ppm F = ±50ppm G = ±100ppm I = ±200ppm					A = ±5ppm B = ±10ppm C = ±15ppm D = ±20ppm E = ±30ppm F = ±50ppm G = ±100ppm H = ±25ppm I = ±200ppm K = ±40ppm
					1 = -20 - +60°C 2 = 0 - 70°C 3 = -20 - +70°C 4 = -10 - +70°C 5 = -20 - +60°C 6 = 0 - +50°C		
	2T = 2x6 mm 3T = 3x8 mm						
			06 = 6pF 10 = 10pF 1C = 12,5pF				
				F = fundamental			

part number example:

2x6mm 32,768 kHz ±20ppm CL=12,5pF -10/+60°C

# 2TK0327680D1CF5G