

Tuning Fork Crystal Resonators / kHz Band Crystal Resonators

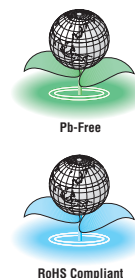
DT-38, DT-381/DT-26, DT-261



Low power consuming tuning fork crystal resonators are suitable not only for wristwatches but also for a wide range of other applications from industrial equipment to the clock functions in consumer and household electronics.

■ Features

- A cylindrical type tuning fork crystal resonator



■ Standard Specification

Item	Type	DT-38	DT-381	DT-26	DT-261
Frequency Range		32.768kHz	20 to 90kHz	32.768kHz	28 to 90kHz
Load Capacitance		12.5pF (1)			
Drive Level		1.0μW (2.0μW max.)			
Frequency Tolerance		$\pm 20 \times 10^{-6}$ (at 25°C)			
Series Resistance		30kΩ max. (2)		40kΩ max. (2)	
Turnover Temperature		$+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$			
Parabolic Coefficient		$-0.04 \times 10^{-6} / ^{\circ}\text{C}^2$ max.			
Operating Temperature Range		-10 to $+60^{\circ}\text{C}$			
Storage Temperature Range		-20 to $+70^{\circ}\text{C}$			
Shunt Capacitance		1.3pF typ.	(2)	1.1pF typ.	(2)

(1) Other capacitance value is available upon your request.

(2) Upon customer request.

(3) Moisture prevention packing is unnecessary.

Moisture Sensitivity Level : LEVEL 1 (IPC/JEDEC J-STD-033)

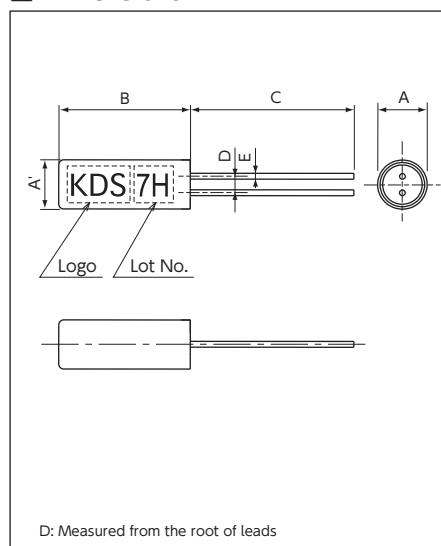
Consult our sales representative for other specifications.

■ Dimensions[mm]

Type	A'	A	B	C	D	E
DT-38, DT-381	$\phi 3.0$	$\phi 3.0 \begin{smallmatrix} +0.1 \\ -0.2 \end{smallmatrix}$	$8.0 \begin{smallmatrix} +0.3 \\ -0.2 \end{smallmatrix}$	10.0 ± 1.0	1.1 ± 0.2	$\phi 0.35 \pm 0.07$
DT-26, DT-261	$\phi 2.0$	$\phi 2.0 \begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$	$6.0 \begin{smallmatrix} +0.1 \\ -0.2 \end{smallmatrix}$	7.5 ± 1.0	0.7 ± 0.2	$\phi 0.28 \pm 0.05$

■ Dimensions

[mm]



■ Load Capacitance Characteristics (Example)

