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# Tuning Fork Crystal Resonators

## DT-38, DT-381, DT-26, DT-261



Tuning fork crystal resonators are low power-consumption resonators used in a wide variety of applications including clock functions, industrial equipment, consumer/household products, and wrist-watches.

### ■ Features

- Tuning fork crystal resonator (cylinder type).
- Automatic mounting with tape and reel is possible (DT38, DT381).

### ■ Generic Specification

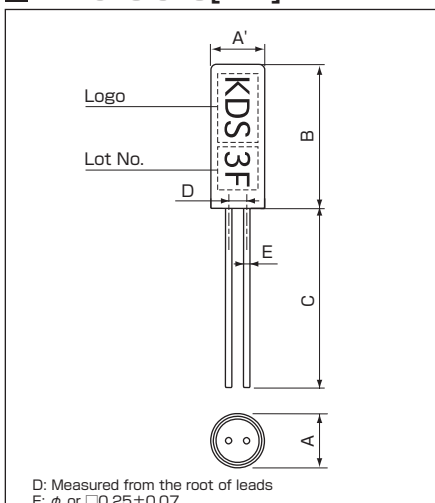
Item	Type	DT-38	DT-381	DT-26	DT-261
Frequency Range		32.768kHz	15~150kHz	32.768kHz	28~80kHz
Vibration Mode		Fundamental			
Load Capacitance		12.5pF ※1			
Drive Level		1.0±0.2μW			
Frequency Tolerance		GRADE A±20×10 <sup>-6</sup> (at25°C) GRADE B±30×10 <sup>-6</sup> (at25°C)	※2	GRADE A±20×10 <sup>-6</sup> (at25°C) GRADE B±30×10 <sup>-6</sup> (at25°C)	※2
Series Resistance		30kΩ max.	※2	40kΩ max.	※2
Parabolic Temperature		+25°C±5°C	※2	+25°C±5°C	※2
Two Dimensional Temperature Constant		-0.04×10 <sup>-6</sup> /°C <sup>2</sup> max.			
Operating Temperature Range		-10~+60°C			
Storage Temperature Range		-20~+70°C			
Shunt Capacitance		1.3pF Typ.	※2	1.1pF Typ.	※2

※1: Other capacitance value is available upon your request. ※2: Upon customer request.

### ■ Dimensions[mm]

Type	A'	A	B	C	D	E
DT-38, DT-381	φ3.0	φ3.0 <sup>+0.1</sup> <sub>-0.2</sub>	8.0 <sup>+0.3</sup> <sub>-0.2</sub>	10.0±1.0	1.1±0.2	φ0.35±0.07
DT-26, DT-261	φ2.0	φ2.0 <sup>+0.1</sup> <sub>-0.2</sub>	6.0 <sup>+0.1</sup> <sub>-0.2</sub>	7.5±1.0	0.7±0.2	φ0.28±0.05

### ■ Dimensions[mm]



### ■ Load Capacitance Characteristics (Typical examples)

