



actual size

# Quartz Crystal · MTF38

## Pin Type Crystal · 3.0 x 8.9 mm

- wave soldering temperature: 260 °C max.
- 3 x 8 mm cylinder type



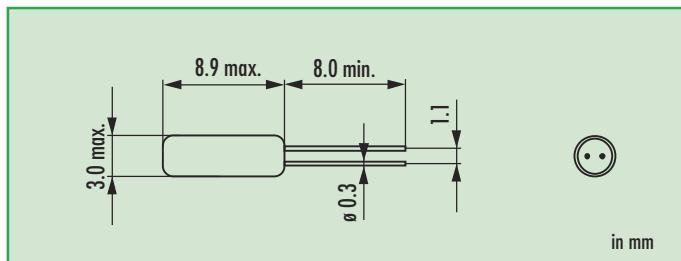
### General Data

type	MTF38
frequency range	3.579545 ~ 40.0 MHz (fund. AT-cut)
	30.0 ~ 91.0 MHz (3rd OT. AT-cut)
frequency tolerance at 25 °C	± 15 ppm ~ ± 30 ppm
load capacitance C <sub>L</sub>	12 pF ~ 32 pF or series
shunt capacitance C <sub>0</sub>	< 5 pF
storage temperature	-40 °C ~ +90 °C
drive level max.	500 µW (100 µW recommended)
aging	< ± 5 ppm first year

### Frequency Stability vs. Temperature

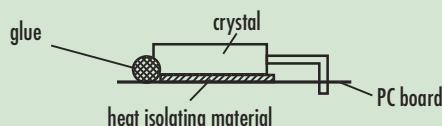
		± 20 ppm	± 30 ppm	± 50 ppm
-20 °C ~ +70 °C	STD.	○	●	
-40 °C ~ +85 °C	T1		○	●
● standard				
○ available				

### Dimensions



### Mounting

**Mounting:** if the crystal should be mounted vertically to your board (see picture), do not directly solder the metal can. The crystal may be overheated by the direct heat flow.  
Please use glue (hot-melt adhesive) or mechanical clamping to fasten the metal can.



### Order Information

Q	frequency	type	load capacitance in pF	stability at 25 °C	/	stability vs. temp. range	option
Quartz	3.579545 ~ 91.0 MHz	MTF38	30 pF standard 12 pF ~ 32 pF S for series	30 = ± 30 ppm std	/	see table	
							blank = -20 °C ~ +70 °C T1 = -40 °C ~ +85 °C FU = for fundamental frequencies ≥ 20 MHz 3OT = 3rd overtone
Example: Q 30.0-MTF38-30-30/FU							

