

## Frequency shifts depending on the temperature

Material	TC	Turnover Temperature (for filters and resonators)
ST- quartz	$39 \cdot 10^{-9} / ^\circ\text{C}^2$	0 $^\circ\text{C}$
36YX quartz SAW	$40 \cdot 10^{-9} / ^\circ\text{C}^2$	45 $^\circ\text{C}$
36YX quartz PSAW	$56 \cdot 10^{-9} / ^\circ\text{C}^2$	35 $^\circ\text{C}$
37YX quartz	$40 \cdot 10^{-9} / ^\circ\text{C}^2$	25 $^\circ\text{C}$
128YX LNO	$-73 \cdot 10^{-6} / ^\circ\text{C}$	NA
64YX LNO	$-72 \cdot 10^{-6} / ^\circ\text{C}$	NA
49YX LNO	$-71 \cdot 10^{-6} / ^\circ\text{C}$	NA
36YX LTO	$-30 \cdot 10^{-6} / ^\circ\text{C}$	NA
42YX LTO	$-30 \cdot 10^{-6} / ^\circ\text{C}$	NA
112XY LTO	$-18 \cdot 10^{-6} / ^\circ\text{C}$	NA