

Quartz Crystal JTX210

- SMD Tuning Fork Crystal 2.0 x 1.2 mm
- 32.768 kHz
- package height 0.6 mm max.
- low ESR options available



RoHS compliar





REACH

Conflict mineral free

GENERAL DATA					
ТҮРЕ	JTX210				
frequency	32.768 kHz				
frequency tolerance at 25 °C ± 5 °C	± 20 ppm / ± 30 ppm				
load capacitance C _L	12.5 pF std. / 9 pF / 7 pF / 6 pF / 4 pF				
temperature constant (T_c)	$T_c = -0.04 \text{ ppm / }^{\circ}\text{C}^2 \text{ max.}$				
	$T_c = -0.034 \text{ ppm / } ^{\circ}\text{C}^2 \text{ typical}$				
frequency temperature characteristic	$\Delta f = T_C \cdot (T_A - T_{TP})^2 \text{ in [ppm]}$				
	T _A = actual ambient temperature				
	$T_{TP} = 25 ^{\circ}\text{C} \pm 5 ^{\circ}\text{C}$				
	T_{TP} = turning point temperature				
operating temperature range	refer to freuquency stability table				
shunt capacitance C ₀	1.15 pF typical				
series resistance max. (ESR)	90 kΩ (for STD. and T1)				
	100 kΩ (for T2)				
	120 kΩ (for T3)				
	70 k Ω (option for STD. and T1)				
	$80\ k\Omega$ (option for STD. and T1)				
storage temperature	-40 °C ~ +125 °C				
drive level max.	0.5 μW				
aging first year	< ± 3 ppm				

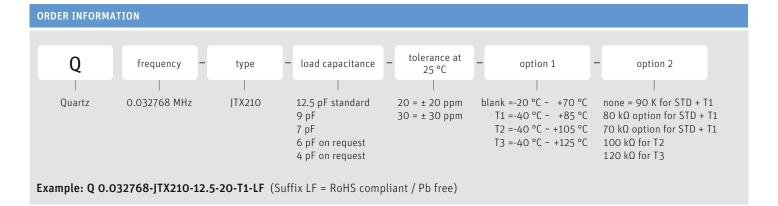
TABLE 1: FREQUENCY STABILITY VS. TEMPERATURE									
frequency stability	-80 ppm	-160 ppm	-250 ppm	-400 ppm					
-20 °C ~ +70 °C	STD.	•							
-40 °C ~ +85 °C	T1		•						
-40 °C ~ +105 °C	T2			0					
-40 °C ~ +125 °C	T3				0				

[•] standard O available

MARKING

Factory code / CL code / date code / internal code CL code: A = 12.5 pF, B = 9 pF, C = 7 pF, D = 6 pF

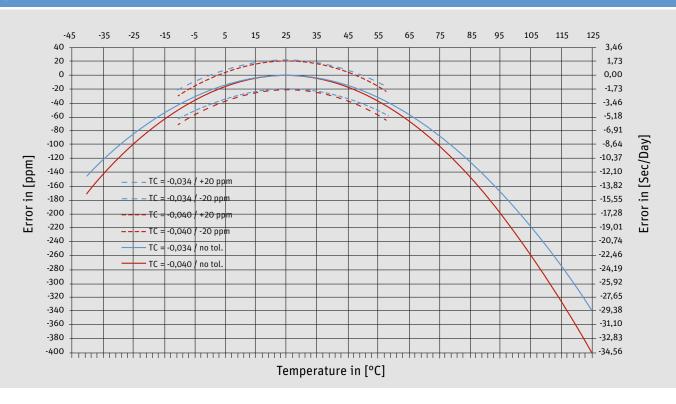
		Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2018	2022	N	Р	Q	R	S	T	U	٧	W	Χ	Υ	Z
2019	2023	а	b	С	d	е	f	g	h	j	k	l	m
2020	2024	n	р	q	r	S	t	u	٧	W	Х	у	Z
2021	2025	Α	В	С	D	Е	F	G	Н	J	K	L	М





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FREQUENCY ERROR VS. TEMPERATURE IN PPM OR SECONDS PER DAY



TAPING SPECIFICATION 4.0±0.1 4.0±0.1 4.0±0.1 1000 or 3000 pcs per reel Feeding in mm

