

### Oscillator JT32C · TCXO

- TCXO with HCMOS output, 3.2 x 2.5 mm
- excellent phase noise
- operating temperature range -40 °C ~ +85 °C
- ceramic/metal package



RoHS compliant





REACH compliant

Conflict mineral free

GENERAL DATA				
ТҮРЕ		JT32C		
frequency range		4.0 ~ 54.0 MHz		
frequency stability	at +25°C	± 2.0 ppm (incl. 2x reflow)		
	temperature	± 2.5 ppm (others on request)		
	aging first year	± 1.0 ppm		
	supply voltage	± 0.2 ppm (at V <sub>DC</sub> ± 5%)		
	load change	± 0.2 ppm		
current consumption		see table 1		
supply voltage $V_{\rm DC}$		2.5 V / 2.8 V / 3.3 V (± 5%)		
temperature	operating	-30 °C ~ +75 °C / -40 °C ~ +85 °C		
	storage	-40 °C ~ +105 °C		
output	rise & fall time	5.0 ns max.		
	load max.	15 pF		
	current max.	4.0 mA		
	low level max.	O.1 x V <sub>DC</sub>		
	high level min.	0.9 x V <sub>DC</sub>		
harmonics dis	tortion max.	-5.0 dBc		
symmetry at C	).5 x V <sub>DC</sub>	45% ~ 55% max.		
start-up time max.		3 ms		
standby current max.		10 μΑ		
output enable time max.		3 ms		
output disable time max.		250 ns		
phase jitter 12 kHz ~ 20 MHz		< 0.35 ps RMS max. / 0.2 ps RMS typ.		

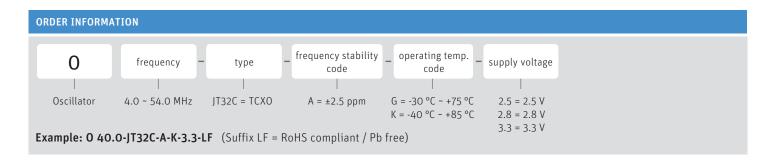
TABLE 1: CURRENT CONSUMPTION MAX.							
	4 ~ 10 MHz	~ 20 MHz	~ 30 MHz	~ 40 MHz	~ 54 MHz		
2.5 V	3.1 mA	3.7 mA	4.2 mA	4.6 mA	5.5 mA		
2.8 V	3.4 mA	4.1 mA	4.7 mA	5.2 mA	6.0 mA		
3.3 V	4.0 mA	4.8 mA	5.5 mA	6.0 mA	7.0 mA		

ENABLE / DISABLE FUNCTION				
PIN #1 (E/D CONTROL)	PIN #3 (OUTPUT)			
open	active			
high "1" $(V_{IH} \ge 0.7 V_{DC})$	active			
low "0" (V <sub>IL</sub> ≤ 0.3 V <sub>DC</sub> )	high impedance			
stop function: - oscillator stops - output high impedance				

#### NOTE

4 user pins (e/d, GND, output,  $V_{DC}$ ) leave the other pins unconnected!

# TCXO JT32C #1: e/d #2: GND #3: output #4: V<sub>DC</sub> top view side view bottom view pad layout pin connection in mm





## Oscillator JT32C · TCXO with HCMOS output

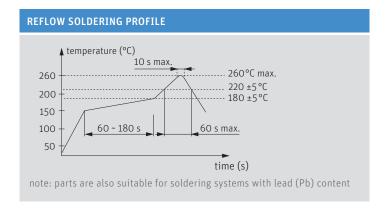
# 

MARKING

July

G

Aug.



#### frequency company code / date code date code: A ~ M: Jan. - Dec. 1: 2021 2: 2022 3: 2023 4: 2024 5: 2025 6: 2026 Febr. June Jan. Mar. Apr. May В С D Ε Α F

Oct.

Nov.

Dec.

Sept.

#### PACKAGING NOTE

- standard packing unit is 500 pieces per reel
- non-multiple packing units are only supplied taped / bulk

