Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

actual size

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 | Pb free | REACH compliant | Conflict mineral free

GENERAL DATA

TYPE		JT32C
frequency range		4.0 ~ 54.0 MHz
frequency stability	at +25°C	± 0.5 ppm
	temperature	± 2.5 ppm (others on request)
	aging first year	± 1.0 ppm
	supply voltage	± 0.2 ppm (at V_{DC} ± 5 %)
	load change	± 0.2 ppm
	after reflow	± 1.0 ppm
current consumption		see table 1
supply voltage V_{DC}		2.5 / 2.8 / 3.3 (± 5 %)
temperature	operating	-30 °C ~ +75 °C / -40 °C ~ +85 °C
	storage	-40 °C ~ +125 °C
output	rise & fall time	5.0 ns max.
	load max.	15 pF
	current max.	4.0 mA
	low level max.	0.1 x V_{DC}
	high level min.	0.9 x V_{DC}
harmonics distortion max.		-5.0 dBc
symmetry at 0.5 x V_{DC}		45 % ~ 55 % max.
start-up time max.		10 ms
standby current max.		10 µA
output enable time max.		10 ms
output disable time max.		250 ns
Jitter 1 σ		3.0 ps
phase noise at 10 kHz offset		-145 dBc/Hz

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

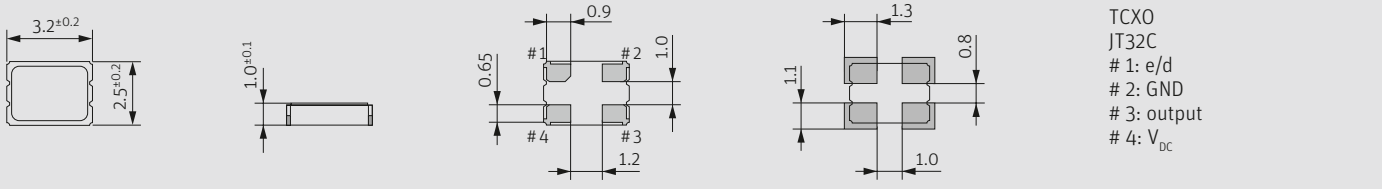
PIN #1 (E/D CONTROL)	PIN #3 (OUTPUT)
open	active
high "1" (V_{IH} ≥ 0.7 V_{DC})	active
low "0" (V_{IL} ≤ 0.3 V_{DC})	high impedance

stop function:
– oscillator stops
– output high impedance

NOTE

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

DIMENSIONS



top view | side view | bottom view | pad layout | pin connection | in mm

ORDER INFORMATION

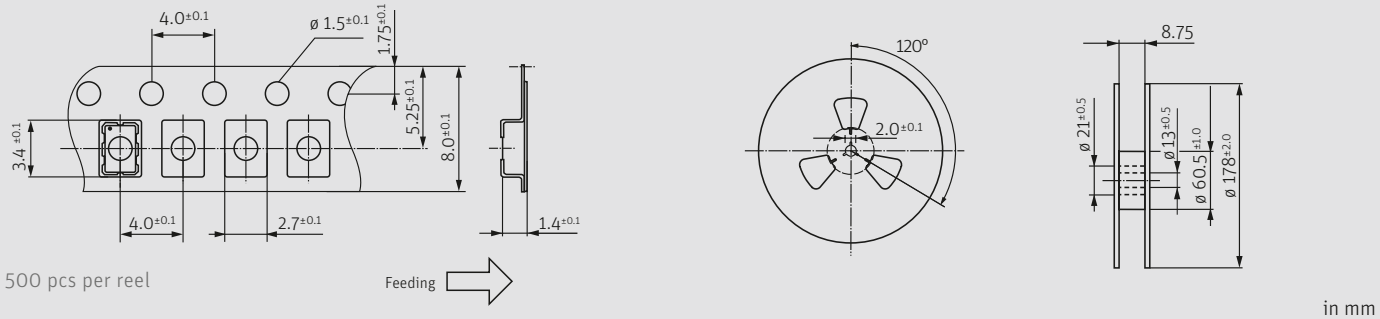
0	frequency	–	type	–	frequency stability code	–	operating temp. code	–	supply voltage
Oscillator	4.0 ~ 54.0 MHz		JT32C = TCXO		A = ±2.5 ppm		G = -30 °C ~ +75 °C K = -40 °C ~ +85 °C		2.5 = 2.5 V 2.8 = 2.8 V 3.3 = 3.3 V

Example: O 16.3680-JT32C-A-K-3.3-LF (Suffix LF = RoHS compliant / Pb free)

Jauch Quartz GmbH • e-mail: info@jauch.com • full data can be found under: www.jauch.com

Oscillator JT32C · TCXO

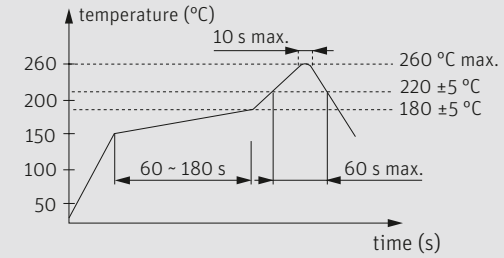
TAPING SPECIFICATION



500 pcs per reel

in mm

REFLOW SOLDERING PROFILE



note: parts are also suitable for soldering systems with lead (Pb) content

MARKING

frequency
company code / date code

date code: A ~ M: Jan. - Dec.

7: 2017 8: 2018 9: 2019 0: 2020 1: 2021 2: 2022

Jan.	Febr.	Mar.	Apr.	May	June
A	B	C	D	E	F
July	**Aug.**	**Sept.**	**Oct.**	**Nov.**	**Dec.**
G	H	J	K	L	M

PACKAGING NOTE

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