imall

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.

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Oscillator JT22S(V) · (VC)TCXO

- Temp. Compensated Crystal Oscillator, 2.5 x 2.0 mm - low power VCTCXO or TCXO
- temperature range -40 °C ~ +85 °C available
- ± 1.0 ppm stability available
- ceramic/metal package



Conflict

GENERAL DATA

ТҮРЕ		JT22S / JT22SV			
frequency range		9.5 ~ 52.0 MHz			
frequency tolerance/ stability	at +25°C	± 1.5 ppm (incl. 2x reflow)			
	temperature	± 1 ppm ~ ± 5 ppm (table 1)			
Stastity	aging first year	± 1 ppm			
	supply voltage	± 0.2 ppm (at V _{DC} ± 5 %)			
	load change	± 0.2 ppm			
current consumption		1.5 mA max. < 26 MHz / 2.5 mA max. < 52 MHz			
supply voltage $V_{_{DC}}$		1.8 / 2.5 / 2.8 / 3.0 / 3.3 (± 5%) *			
temperature	operating	see table 1			
	storage	-40 °C ~ +85 °C			
output	load nom.	10 KΩ // 10 pF			
	level min.	0.8 Vpp (clipped sine)			
external tuning range JT22SV		± 8 ppm min.			
external tuning voltage JT22SV		0.9 V \pm 0.9 V at V $_{_{\rm DC}}$ = 1.8 V (standard)			
		1.5 V ± 1.0 V at $V_{DC} \ge 2.5$ V (standard)			
		1.4 V \pm 1.0 V at V $_{\rm DC}$ \ge 2.5 V (option)			
start-up time max.		2.5 ms			
phase noise	at 100 Hz	-109 dBc/Hz typ.			
at fo	at 1 KHz	-133 dBc/Hz typ.			
26 MHz at 10 KHz		-148 dBc/Hz typ.			

TABLE 1: FREQUENCY STABILITY VS. TEMPERATURE							
	frequency stability code / ppm						
operating	Y	Z	А	В	С	D	
temperature code	± 5.0	± 3.0	± 2.5	± 2.0	± 1.5	± 1.0	
A: -30 °C ~ +80 °C	0	0	0	0	0	0	
B: -20 °C ~ +70 °C	0	0	0	0	0	0	
C: -10 °C ~ +60 °C	0	0	0	0	0	0	
D: 0 °C ~ +85 °C	0	0	0	0	0	0	
E: 0°C ~ +55°C	0	0	0	0	0	0	
F: -10°C ~ +70°C	0	0	0	0	0	0	
G: -30 °C ~ +75 °C	0	0	0	0	0	0	
H: -20 °C ~ +75 °C	0	0	0	0	0	0	
K: -40 °C ~ +85 °C	0	0	0	0	0	0	
L:-20°C~+85°C	0	0	0	0	0	0	
M: -30°C~+85°C	0	0	0	0	0	0	

O on request

NOTE

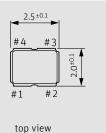
- TCXO JT22S: pin #1 connected to GND

- VCTCXO JT22SV: pin #1 is control voltage V_c

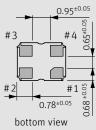
- external AC coupling for output recommended

* other nominal supply voltages within 1.8 V ~ 3.3 V need to be specified, ask for availability

DIMENSIONS







0.90^{±0.2} TCX JT22 # 1: # 2: # 3: 0.80 # 4: $1.85^{\pm0.1}$ pad layout pin connection

0	VCTCXO
2S	JT22SV
GND	# 1: Vcontrol
GND	# 2: GND
output	# 3: output
V _{DC}	# 4: V _{DC}

ORDER INFORMATION

0	frequency	– type –	frequency stability code	 operating temp. code 	 supply voltage 	 control voltage (for JT22SV only)
Oscillator	9.5 ~ 52.0 MHz	JT22S = TCXO	A - Z	A - M	1.8 = 1.8 V	$0.9 = V_{c} 0.9 V \pm 0.9 V$ at $V_{DC} = 1.8 V$
		JT22SV = VCTCXO	see table 1	see table 1	2.5 = 2.5 V	$1.5 = V_c \ 1.5 \ V \pm 1.0 \ V \ at \ V_{DC} \ge 2.5 \ V$
					2.8 = 2.8 V	$1.4 = V_c 1.4 V \pm 1.0 V \text{ at } V_{DC} \ge 2.5 V$
					3.0 = 3.0 V	see General Data
Example: 0 26.0-JT22SV-A-G-3.3-1.5-LF (Suffix LF = RoHS compliant / Pb free)				3.3 = 3.3 V		

Example: O 26.0-JT22SV-A-G-3.3-1.5-LF (Suffix LF = RoHS compliant / Pb free)



full data can be found under:

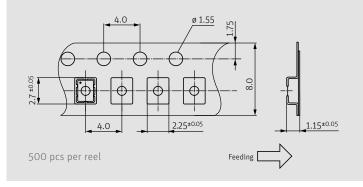
www.jauch.de | www.jauch.co.uk | www.jauch.fr | www.jauchusa.com

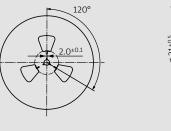
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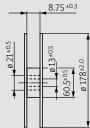
in mm

Oscillator JT22S(V) · (VC)TCXO

TAPING SPECIFICATION

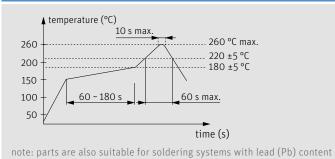






in mm

REFLOW SOLDERING PROFILE



MARKING

frequency company code / stability code / data 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
А	В	С	D	E	F
July	Aug.	Sept.	Oct.	Nov.	Dec.
G	Н	J	К	L	М

PACKAGING NOTE

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

