

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!



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Oscillator JO22H · 2.5 V

- High Stability Oscillator with Stop Function 2.5 x 2.0 mm
- Stability suitable for wireless application (Bluetooth, WiFi etc.)
- LVCMOS / HCMOS compatible output
- Low phase jitter, no PLL
- Flat seam sealed ceramic/metal package







Conflict

GENERAL DATA				
ТҮРЕ		J022H 2.5 V		
frequency ran	ge	4.0 ~ 54.0 MHz (15 pF max.)		
frequency stability over all*		± 10ppm ~ ± 20ppm		
		see table 1		
current consumption		6 mA max.		
supply voltage	e V _{DC}	2.5 V ± 5%		
temperature	operating	-20 °C ~ +70 °C / -40 °C ~ +85 °C		
	storage	-40 °C ~ +85 °C		
output	rise & fall time	5 nsec max.		
	load max.	15 pF		
	current max.	4.0 mA		
	low level max.	0.1 V x V _{DC}		
	high level min.	0.9 V x V _{DC}		
output enable time max.		10 ms		
output disable time max.		250 ns		
start-up time max.		10 ms		
standby function		stop		
standby current max.		10 μΑ		
phase jitter 12 kHz ~20 MHz		< 3.0 ps RMS typ.		
symmetry at 0.5 x $V_{\rm DC}$		45% ~ 55% max.		

*	includes stability at 25 °C, operating temp. range, supply voltage change,
	shock and vibration, aging 1st year.

TABLE 1: FREQUENCY STABILITY CODE					
stability code	D ± 20 ppm	E ±15 ppm	F ± 10 ppm		
-20 °C ~ +70 °C	0	0	0		
-40 °C ~ +85 °C	0	0	0		

O available

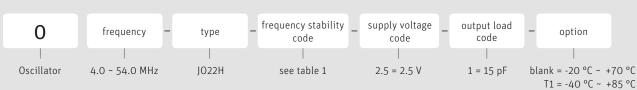
TABLE 2: RISE & FALL TIME MAX.				
5 ns:	4.0 ~ 54.0 MHz	note:		
		- specific data on request		
		- rise time: $0.1 V_{DC} \sim 0.9 V_{DC}$		
		- fall time: 0.9 V ~ 0.1 V		

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" $(V_{IL} \le 0.3 V_{DC})$	high impedance		
ston function.			

- · oscillator stops
- output high impedance

DIMENSIONS 0.95^{±0.05} 0.90^{±0.1} # 1: e/d # 2: ground #3: output # 4: V_{DC} 1.85^{±0.1} 0.78^{±0.05} side view bottom view pad layout pin connection top view in mm

ORDER INFORMATION

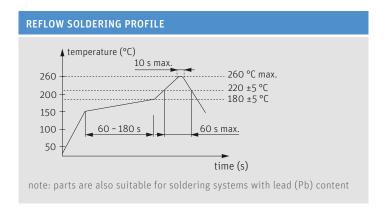


Example: 0 20.0-J022H-F-2.5-1-T1 (Suffix LF = RoHS compliant / Pb free)



Oscillator JO22H · 2.5 V · Low Power

TAPING SPECIFICATION 9.0 1.15 ± 0.05 500 pcs per reel, 1000 pcs per reel on request Feeding in mm



MARKING

frequency

company stability code / data code

data 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	K	L	М

PACKAGING NOTE

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

