MINIATURE PRECISION LOW PHASE NOISE OCXO MV320

Preliminary information

Features:

- ***Small package: 21x13x9.5 mm***
- ***Low phase noise***
- ***Frequency range: 10 – 50 MHz (for other frequencies please consult factory)***

ORDERING GUIDE: MV320 – B 100 I – 5V – 20.0 MHz – 1

Availability of certain stability vs. operating temperature range		±3.0x10^{-7}	±1.0x10^{-7}	±5.0x10^{-8}	±1x10^{-8}	5x10^{-9}
		300	100	50	10	5
A	0…+55ºC	A	A	A	A	A
B	-10…+60ºC	A	A	A	A	A
C	-20…+70ºC	A	A	A	A	A
D	-40…+70ºC	A	A	A	A	C
EX	-40…+85ºC	C	C	C	C	C

A – available; C – consult factory

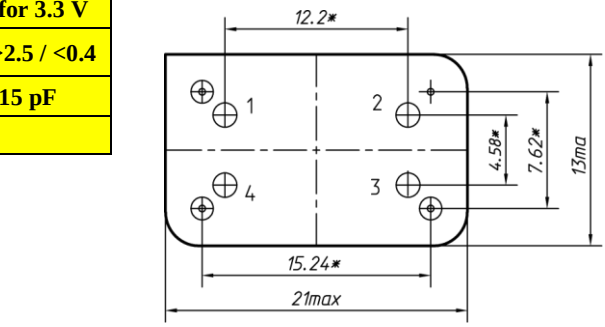
Power supply
5 V
3.3 V

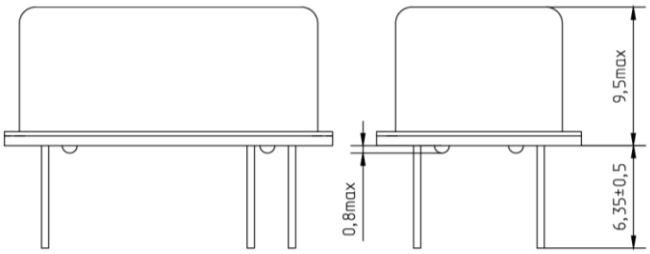
Aging	
I	±3x10^{-7}/year
H	±2x10^{-7}/ year
G	±1x10^{-7}/ year
F	±5x10^{-8}/ year

Power supply (Us)	3.3 V	5.0 V
Steady state current consumption @ +25ºC	<300 mA	<200 mA
Peak current consumption during warm-up (+25ºC)	<650 mA	<650 mA
Frequency pulling range	>±7.0x10^{-7}	>±7.0x10^{-7}
Frequency stability vs. power supply changes	<±2x10^{-8}	
Warm-up time within accuracy of <±2x10^{-7} @ 25ºC	<2 min	
Output waveform	HCMOS	
Level	for 5 V	for 3.3 V
	>2.8 / <0.4	>2.5 / <0.4
Load	10 kOhm/15 pF	
Harmonics	-	

Phase noise, dB/Hz, for 10 MHz, at offset:			
	-	1	2
1 Hz	-75	-80	-85
10 Hz	-110	-115	-123
100 Hz	-135	-140	-143
1000 Hz	-150	-153	-155
10000 Hz	-155	-157	-158

Pin designation	
1	Control voltage input
2	Ground (case)
3	RF output
4	Power supply





Vibrations:	
Frequency range	10-500 Hz
Acceleration	5 g

Shock:	
Acceleration	100 g
Duration	3 ms
Storage temperature range	-55…+85ºC

For non-standard operating temperature ranges please use the following two letters designations (first letter for the lower limit, second letter for the upper limit), ºC:

Обозн.	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	W	X
Темп.	-40	-30	-20	-10	0	+10	+30	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85

M O R I O N, I n c.

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Due to continuous development and improvement Morion, Inc. reserves the right to modify design or specifications of its products without prior notice

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