

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

Availability of certain stability vs. operating temperature range		$\pm 3.0 \times 10^{-7}$	$\pm 1.0 \times 10^{-7}$	$\pm 5.0 \times 10^{-8}$	$\pm 1 \times 10^{-8}$	5×10^{-9}
		300	100	50	10	5
A	0...+55°C	A	A	A	A	A
B	-10...+60°C	A	A	A	A	A
C	-20...+70°C	A	A	A	A	A
D	-40...+70°C	A	A	A	A	C
EX	-40...+85°C	C	C	C	C	C

A – available; C – consult factory

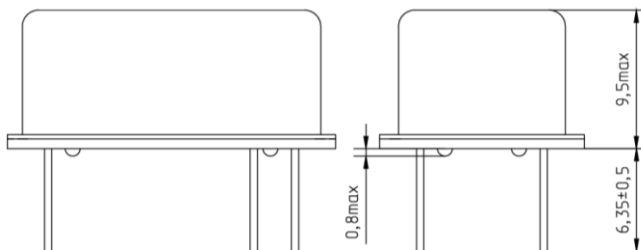
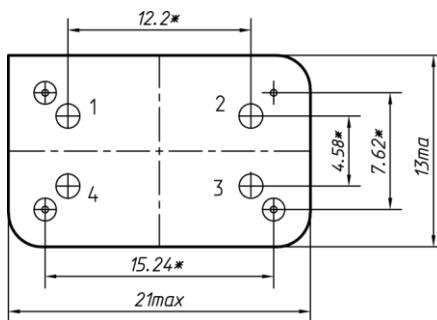
Power supply
5 V
3.3 V

Aging	
I	$\pm 3 \times 10^{-7}$ /year
H	$\pm 2 \times 10^{-7}$ /year
G	$\pm 1 \times 10^{-7}$ /year
F	$\pm 5 \times 10^{-8}$ /year

Power supply (Us)	3.3 V	5.0 V
Steady state current consumption @ +25°C	<300 mA	<200 mA
Peak current consumption during warm-up (+25°C)	<650 mA	<650 mA
Frequency pulling range	$> \pm 7.0 \times 10^{-7}$	$> \pm 7.0 \times 10^{-7}$
Frequency stability vs. power supply changes	$< \pm 2 \times 10^{-8}$	
Warm-up time within accuracy of $< \pm 2 \times 10^{-7}$ @ 25°C	<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 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	10-2000 Hz
Acceleration	5 g

Shock:	
Acceleration	100 g
Duration	3 ms
Storage temperature range	-55...+85°C

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), °C:

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

 **MORION, Inc.**

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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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