

MINIATURE HIGH FREQUENCY PRECISION LOW PHASE NOISE OCXO MV342

Features:

- Frequency range: 48.0...125.0 MHz
- Package size: 26x26x10.3 mm
- Wide operating temperature range: -55...+85 °C
- Low phase noise: <-170 dBc/Hz @ 100 kHz offset
- High stability vs. temperature: up to $\pm 5 \times 10^{-8}$
- Short warm-up time: less than 5 minutes

Frequency range: 48.0-125.0 MHz
Standard Frequency: 48.0; 80.0; 84.0; 100.0; 125.0 MHz

ORDERING GUIDE: MV342-B100J -3-100M

Availability of certain stability vs. operating temperature range		$\pm 5,0 \times 10^{-7}$	$\pm 3,0 \times 10^{-7}$	$\pm 1,0 \times 10^{-7}$	$\pm 5,0 \times 10^{-8}$
A	0...+55 °C	A	A	A	A
B	-10...+60 °C	A	A	A	A
C	-20...+70 °C	A	A	A	NA
EX	-40...+85 °C	A	A	A	NA
BX	-55...+85 °C	A	A	NA	NA

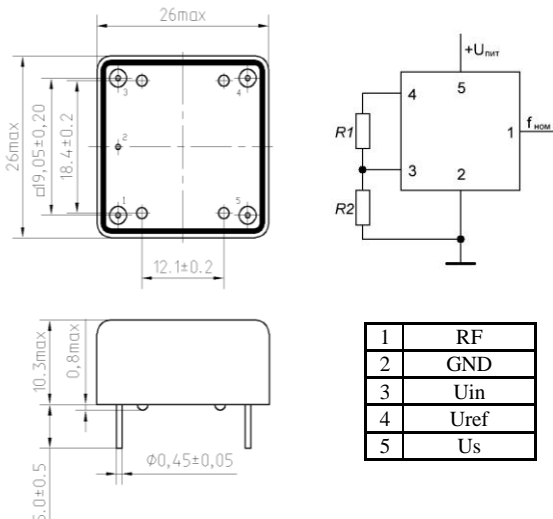
A available; NA – not available.

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

Phase noise, dBc/Hz, for 100.0MHz			
Option	1	2	3
10 Hz	<-95	<-100	<-100
100 Hz	<-125	<-130	<-135
1 kHz	<-150	<-155	<-158
10 kHz	<-162	<-165	<-170
100 kHz	<-165	<-168	<-170

Frequency stability vs. load changes	< $\pm 5 \times 10^{-8}$
Frequency stability vs. power supply changes	< $\pm 1 \times 10^{-7}$
Warm-up time within accuracy of $<\pm 5 \times 10^{-7}$ @ 25°C	<5 min
Power supply	12V $\pm 10\%$
Steady state current consumption @ 25°C	<300 mA
Peak current consumption during warm-up @ 25°C	<600 mA
Reference voltage output (Uref) with external control voltage range (Uin)	> $\pm 3 \times 10^{-6}$ 0...10 V
Frequency pulling range	+10 V
Output	SIN
Level	>400 mV
Load	50 Ohm $\pm 10\%$
Harmonics	< -25 dBc

Package drawings:



Mechanical characteristics:	
Vibration	10-500 Hz, 5g
G-sensitivity	< 5×10^{-10}
Storage temperature range, °C	-55...+85 °C

Additional notes:

- 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

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

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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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