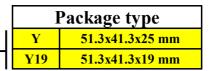
## **ULTRA PRECISION OCXO MV62**

### Features:

- High stability vs. temperature up to  $\pm 5x10^{-10}$
- Low aging up to  $\pm 2x10^{-8}$ /year
- Low phase noise
- Option with package height of 19mm (3/4")
- Ideal for GPS, CDMA, 3G applications
- Frequency range 5.0-10.0 MHz
- Available as RoHS



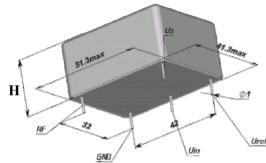
Output type
SIN
HCMOS

<b>ORDERING GUIDE:</b>	MV62 - C	<b>05</b> 1	F - Y -	SIN –	10.0 MHz
		$\top$	Γ		

ce	evailability of rtain stability vs. operating temperature	±5x10 <sup>-9</sup>	±2x10 <sup>-9</sup>	±1x10-9	±5x10 <sup>-10</sup>
	range	5	2	1	05
A	0+55 °C	A	A	A	A
В	- 10+60 °C	A	A	A	A
C	- 20+70 °C	A	A	A	A
D	-40+70 °C	A	A	A	C

For other temperature ranges see designation at the end of Data Sheet

# Package drawing:



H=25 mm for Y; H=19 mm for Y19.

SIN	HCMOS
>225 mV (0dBm)	5V/ 4555%
50 Ohm±5%	10kOhm/15pF
>30dB	-
-100 dBc/Hz	-97 dBc/Hz
-125 dBc/Hz	-122 dBc/Hz
-145 dBc/Hz	-142 dBc/Hz
-150 dBc/Hz	-147 dBc/Hz
-155 dBc/Hz	-150 dBc/Hz
	>225 mV (0dBm) 50 Ohm±5% >30dB  -100 dBc/Hz -125 dBc/Hz -145 dBc/Hz -150 dBc/Hz

I	Avail	ability of certain	Standard frequencies								
		ing values for ain frequencies	5.0 MHz	8.192 MHz	10.0 MHz						
	F	±5x10 <sup>-8</sup> /year	A	A	A						
	E	±3x10 <sup>-8</sup> /year	A	A	A						
	D	±2x10 <sup>-8</sup> /year	A	C	NA						

A – available, NA – not available, C – consult factory

Short term stability (Allan deviation) per 1 sec	<5x10 <sup>-12</sup>
Frequency stability vs. load changes	$<\pm 3x10^{-10}$
Frequency stability vs. power supply changes	<±3x10 <sup>-10</sup>
Power supply	12V±5%
Steady state current consumption @ 25°C	< 180 mA
Peak current consumption after switch-on	<500 mA
Warm-up time within <±5x10 <sup>-8</sup>	<5 min
Frequency pulling range	$>\pm 3 \times 10^{-7}$
with external voltage range	0+5 V
with external potentiometer	20 kOhm
Reference voltage output	+5 V
Slope	Positive

## **Mechanical characteristics:**

Vibrations: Frequency range Acceleration	1200 Hz 5 g
Shock: Acceleration	100 g
Duration	3.0 ms
Storage temperature range	-55+85°C

#### **Additional notes:**

- Option with output level of >1000 mV for SIN output.
- Showed values of frequency stability vs. temperature usually are tested in Still Air test conditions. Please inform factory about different conditions in operation to provide appropriate tests.
- Please consult factory for daily aging values. Normally typical correspondence of daily aging per day to aging per year is as following:  $\pm 5 \times 10^{-8} / \text{year} \pm 5 \times 10^{-10} / \text{day}$ ;  $\pm 3 \times 10^{-8} / \text{year} \pm 3 \times 10^{-10} / \text{day}$ ;  $\pm 2 \times 10^{-8} / \text{year} \pm 2 \times 10^{-10} / \text{day}$ .
- Please mention RoHS requirement (if any) while requesting for quote or while placing PO.
- 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	В	C	D	E	F	G	Н	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



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