PRECISION LOW G-SENSITIVITY OCXO MV207

Features:

- *Low G - sensitivity up to: 0.5x10^{-9}/g*
- *Long term stability up to±2x10^{-8}/year*
- *High stability vs. temperature: up to ±7.5x10^{-10}*
- *Power supply 5V and 12V*
- *Package height - down to 12.7 mm*
- *Frequency range: 5.0 – 20.0 MHz*
- *Low phase noise option*

Power supply
12V
5V

Output
SIN
HCMOS**

Package type	
36x27x16 mm	B16
36x27x12.7 mm	B12.7

ORDERING GUIDE: MV207– C 3 F -12V – SIN – B12.7 – LN – 10.0 MHz

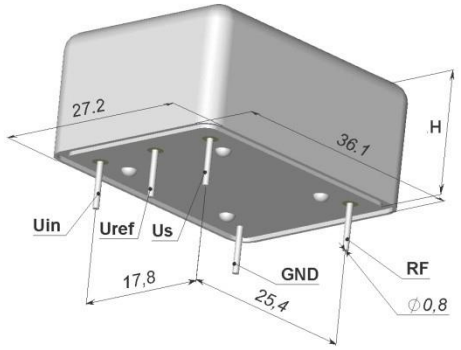
Availability of certain stability vs. operating temperature range (for 10 MHz)		± 5x10^{-9}	± 3x10^{-9}	± 2x10^{-9}	± 1x10^{-9}	±7.5x10^{-10}
		5	3	2	1	075
A	0…+55 °C	A	A	A	A	A
B	- 10…+60 °C	A	A	A	A	C
C	- 20…+70 °C	A	A	A	A	NA
D	- 40…+70 °C	A	A	A	A	NA
EX	- 40…+85 °C	A	A	C	C	NA

Availability of certain aging values for certain frequencies		Standard frequencies					
		5.0 MHz	10.0 MHz	12.8 MHz	13.0 MHz	16.384 MHz	20.0 MHz
H	±2x10^{-7}/ year	NA	NA	NA	NA	A	A
G	±1x10^{-7}/ year	A	A	A	A	A	C
F	±5x10^{-8}/ year	A	A	A	A	C	NA
E	±3x10^{-8}/ year	A	A	A	C	NA	NA
D	±2x10^{-8}/ year	A	A	C	NA	NA	NA

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

Phase noise, dBc/Hz, for 10MHz	-	LN
		For 12V (Sin)
1 Hz	<-95	<-100
10 Hz	<-125	<-130
100 Hz	<-145	<-153
1000 Hz	<-150	<-158
10000 Hz	<-155	<-160

Package drawings:



For "H" definition please see package type

Vibrations:	
Frequency range	10-500 Hz
Acceleration	5 g

Shock:	
Acceleration	75 g
Duration	3ms±1

Humidity @ 25 °C	98%
Storage temperature range	-55…+85 °C

* - for the oscillators with the lower operating temperatures >-20°.
** only for package height 16 mm

Short term stability (Allan deviation) per 1 sec, for 10 MHz Optional	<5x10^{-12} <2x10^{-12}
G-sensitivity (in frequency range 0-500 Hz) Optional	<1.5x10^{-9}/g <1x10^{-9}/g <0,5x10^{-9}/g
Frequency stability vs. load changes (±5%)	<±5x10^{-10}
Frequency stability vs. power supply changes (±5%)	<±5x10^{-10}
Warm-up time within accuracy of <±2x10^{-8}@ 25°C	<5 min

Power supply (Us)	12V±5%	5V±5%
Steady state current consumption @ +25°C (for 10 MHz)	<150 mA	<400 mA
Peak current consumption during warm-up *	<400 mA	<1000 mA
Frequency pulling range (for 10 MHz)	>±4.0x10^{-7}	
Control voltage range (Uin)	0…5 V	0…4.5V
Reference voltage (Uref)	+5 V	+4.5 V

Output	HCMOS**		SIN
Level	«0» «1»	<0.5 V >4.0 V	>300 mV RMS
Load	10 kOhm/30 pF		50 Ohm±5%
Harmonics	-		>30 dBc

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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Revision 4. November 2015