MINIATURE DOUBLE OVEN ULTRA PRECISION OCXO MV209

Features:

- Frequency range: 5 10 MHz
- Low sensitivity to rapid changes of ambient temperature
- Stability vs. temperature: up to ±5x10⁻¹¹
- Short term stability: up to 1x10⁻¹² per 1 sec
- Aging: up to ±1x10⁻⁸/year
- Standard CO-08 package with size of 36x27x19 mm

ORDERING GUIDE: MV209-B 05 E-10.0 MHz-LN -5E-12-12V

	stabi	ability of certain lity vs. operating emperature	± 5×10 ⁻¹⁰	± 3×10 ⁻¹⁰	± 2×10 ⁻¹⁰	± 1×10 ⁻¹⁰	± 5×10 ⁻¹¹
			05	03	02	01	005
	Α	0+55°C	Α	Α	Α	Α	Α
	В	-10+60°C	Α	Α	Α	Α	Α
	С	-20+70°C	Α	Α	U	U	С
ı	D	-40+70°C	Α	С	С	C	С

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

Availability of certain aging values for certain frequencies F ±5x10⁻⁸/year A A A A D ±2x10⁻⁸/year A A A A C ±1x10⁻⁸/year A A A A

Power Supply

12 V

5 V

<5x10⁻¹²

<2x10⁻¹²

<1x10⁻¹²

12V±5%

< 160mA

<700 mA

0...+5 V

+5V

<±1x10⁻¹⁰

<±1x10⁻¹⁰

<10 min

>±4x10⁻⁷

SIN > 400 mV RMS

50 Ohm±5%

>30dBc

<5E-12

<2E-12

<1E-12

5V±5%

<350mA

<1500mA

+4V

A – available, C – consult factory

Phase noise, dBc/Hz, for	_*	LN		
10MHz				
1 Hz	<-95	<-100		
10 Hz	<-125	<-130		
100 Hz	<-143	<-148		
1000 Hz	<-152	<-155		
	<-158	<-160		

Short term stability (Allan deviation) per 1

Frequency stability vs. load changes

Steady state current consumption @

with external control voltage range (Uin)

Peak current consumption during

Frequency stability vs. power supply changes

Warm-up time within accuracy of <±5x10⁻⁸

* For 5V Only

@25°C

Output

Level

Load

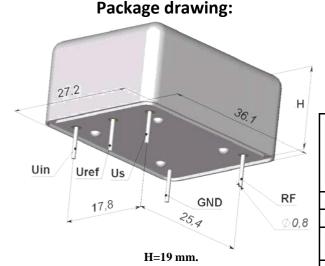
Power supply (Us)

warm-up @ 25°C
Frequency pulling range

Reference voltage (Uref)

Harmonic suppression

25°C (still air)



Vibrations:	
Frequency range	10-500 Hz
Acceleration	10 g
Shock:	
Acceleration	150 g
Duration	3±1 ms
Storage temperature range	-55+80°C

ΔD	DIT	ION	ΔΙ	NO.	TFS.

- 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: ±5x10⁻⁸/year ±5x10⁻¹⁰/day; ±3x10⁻⁸/year ±3x10⁻¹⁰/day; ±2x10⁻⁸/year ±2x10⁻¹⁰/day.
- 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:

, солоти того то тррот титер, от																					
ſ	Α	В	С	D	E	F	G	Н	J	К	L	М	N	Р	Q	R	S	Т	U	W	Х
ſ	-60	-55	-50	-45	-40	-30	-20	-10	0	+10	+30	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85

