DOUBLE OVEN ULTRA PRECISION OCXO MV216

Features:

- Overall stability up to $\pm 3x10^{-8} / 10$ years
- Not sensitive for rapid changes of ambient temperature
- Ultra low aging up to $\pm 5x10^{-9}$ / year
- Ultra high stability vs. temperature up to $\pm 5x10^{-11}$
- Standard frequencies 5 MHz & 10.0 MHz

Typical Applications:

- 3G Communication systems
- Test & Measurement
- Telecom synchronization modules
- GPS/GLONASS Timing & Navigation equipment
- Rubidium replacement

ORDERING GUIDE: MV216 – $\frac{B}{T}$ $\frac{01}{T}$ $\frac{C}{T}$ – 10.0 MHz

	stabil	ability of certain ity vs. operating perature range	±2x10 ⁻¹⁰	±1x10 ⁻¹⁰	±5x10 ⁻¹¹	
			02	01	005	H
- 1	A	0+55 °C	A	A	C	ľ
	В	- 10+60 °C	A	A	C	
7	C	- 20+70 °C	A	A	C	
1	D	-40+70 °C	A	C	C	

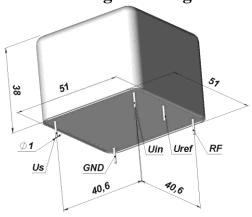
	stabil	lity vs. operating perature range	±2x1	1x1±	±5x1						
			02	01	005						
Ī	A	0+55 °C	A	A	C						
ı	В	- 10+60 °C	A	A	C						
1	C	- 20+70 °C	A	A	C						
l	D	-40+70 °C	A	C	C						

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

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

Overall stability **Overall stability** for 10 years of for 1 year of operation operation $\pm 1 \times 10^{-7}$ ±1.5x10⁻⁸ D ±5x10⁻⁸ ±1x10⁻⁸ ±3x10⁻⁸ ±5x10⁻⁹

Package drawing:



Mechanical characteristics:

Vibrations:	
Frequency range	1-200 Hz
Acceleration	5g
Shock:	
Acceleration	150 g
Duration	3±1 ms
Storage temperature range	-55+80 °C

<2x10 ⁻¹²				
<±5x10 ⁻¹¹				
<±5x10 ⁻¹¹				
<15 min				
12V±5%				
< 350 mA				
<1.5 A				
<1.0 A				
>±2.5x10 ⁻⁷				
0+5 V				
+5V				

Output	SIN
Level	+7 ±2 dBm
Load	50 Ohm±5%
Subharmonics (for 10.0 MHz)	<-40 dBc
Harmonic suppression	>30dBc
Phase noise (for 5 MHz)	
1 Hz	<-105 dBc/Hz
10 Hz	<-130 dBc/Hz
100 Hz	<-145 dBc/Hz
1000 Hz	<-150 dBc/Hz
10000 Hz	<-155 dBc/Hz

ADDITIONAL NOTES:

- 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.
- 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):

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

