DOUBLE OVEN ULTRA PRECISION OCXO MV360

Features:

- ***High stability vs. temperature: up to 1x10^{-11}***
- ***Standard frequency: 10.0 MHz***
- ***Package size: 50.8x50.8x19 mm***
- ***High long-term stability: up to ±1x10^{-8}/year***
- ***Power supply: 5 V and 12 V***
- ***Available as RoHS***
- ***Applications: 5G, Telecommunication, Test & Measurement***

Supply voltage
5 V
12 V

Output
SIN*
LVCMOS

* not specified when ordering

ORDERING GUIDE: MV360–C 003 D–12V–10.0MHz–LVCMOS–1E-12

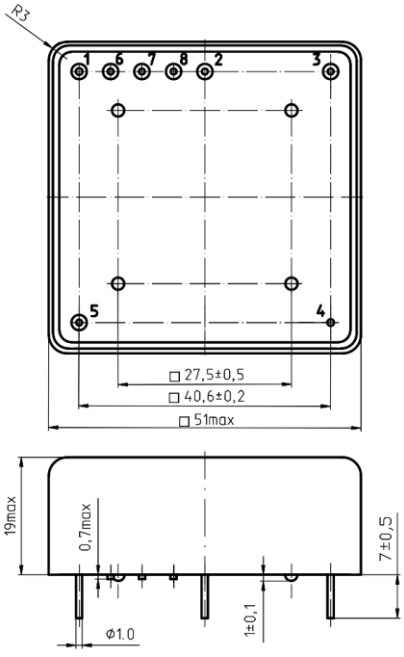
Availability of certain stability vs. operating temperature range		±1x10^{-10}	±5x10^{-11}	±3x10^{-11}	±2x10^{-11}	±1x10^{-11}
		01	005	003	002	001
A	0–+55ºC	A	A	A	A	A
B	-10–+60ºC	A	A	A	A	A
C	-20–+70ºC	A	A	A	A	A
D	-40–+70ºC	A	A	A	A	A
EU	-40–+75ºC	A	A	A	A	A
EX*	-40–+85ºC	A	A	A	A	A
Upon request: up to <1x10^{-11}at any 20˚C window						

A – available

*for 5V only (operable for 12V with <±1.25x10^{-8} vs. +75…+85^{O}C, typ.)

Availability of certain aging values for certain frequencies	
F	±5x10^{-8}/ year
E	±3x10^{-8}/ year
D	±2x10^{-8}/ year
C	±1x10^{-8}/ year

Phase noise, dBc/Hz, at offset	SIN	LVCMOS
1 Hz	<-100	<-95
10 Hz	<-130	<-125
100 Hz	<-150	<-140
1000 Hz	<-155	<-145
10000 Hz	<-160	<-150



Pin	Designation
1	Not used
2	Not used
3	RF output
4	Ground (case)
5	Power supply
6	For factory use
7	For factory use
8	For factory use

Short term stability (Allan deviation) per 1 sec Option	<2x10^{-12}* <1x10^{-12} (1E-12)**

* not specified when ordering

** specified only if the option is required

Frequency stability vs. load changes (±5%)	<±1x10^{-11}	
Frequency stability vs. power supply changes (±5%)	<±1x10^{-11}	
Warm-up time within accuracy of <±5x10^{-8}@ 25^{O}C	<15 min.	
Power supply	5V±5%	12V±5%
Steady state current consumption @ +25^{O}C	<600 mA	<300 mA
Peak current consumption during warm-up	<2 A	<1 A

Output	SIN	LVCMOS
Level	>300 mV RMS	<0.4 / >2.4
Load	50 Ohm±5%	10 kOhm/15pF
Harmonic suppression	>30 dBc	-

Vibrations:	
Frequency range	10-200 Hz
Acceleration	5 g
Shock:	75 g/ 3±1 ms
Humidity @ 25 ^{O}C	98%
Storage temperature	-55…+85^{O}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), ^{O}C:

E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	W	X
-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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