DOUBLE OVEN ULTRA PRECISION OCXO
WITH DIGITAL FREQUENCY CONTROL MV360M

Features:

- ***High stability vs. temperature: up to ±3x10^{-11}***
- ***Standard frequency: 10.0 MHz***
- ***High long-term stability: up to ±1x10^{-8}/year***
- ***Standard package: 50.8x50.8x1 9mm***
- ***Power supply: 5 V and 12 V***
- ***Applications: 5G, Telecommunication, Test & Measurement***
- ***Frequency control by I^{2}C interface***

ORDERING GUIDE: MV360M–C 003 D–12V–10.0M

Availability of certain stability vs. operating temperature range		±1x10^{-10}	±5x10^{-11}	±3x10^{-11}
		01	005	003
A	0…+55ºC	A	A	A
B	-10…+60ºC	A	A	A
C	-20…+70ºC	A	A	A
D	-40…+70ºC	A	A	A
EU	-40…+75ºC	A	A	A
EX*	-40…+85ºC	A	A	A

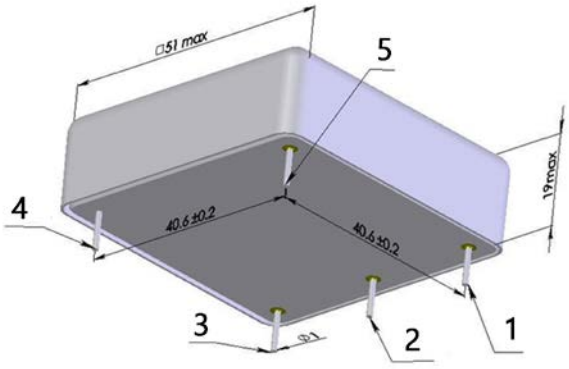
Availability of certain aging values for		10 MHz
F	±5x10^{-8}/ year	A
E	±3x10^{-8}/ year	A
D	±2x10^{-8}/ year	A
C	±1x10^{-8}/ year	A

Supply voltage
5 V
12 V

Phase noise, at offset, dBc/Hz	10 MHz
1 Hz	<-100
10 Hz	<-130
100 Hz	<-150
1000 Hz	<-150
10000 Hz	<-155

A – available

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



Short term stability (Allan deviation) per 1 sec	<2x10^{-12}	
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}@ 25ºC	<15 min.	
Digital frequency control by means of LTC2606-1 16-bit DAC with I^{2}C interface		
Frequency pulling range	≥±2,5x10^{-7}	
Power supply (Us)	5V±5%	12V±5%
Steady state current consumption @ +25ºC	<800 mA	<300 mA
Peak current consumption during warm-up	<2 A	<1 A

Output	SIN
Level	>300 mV RMS
Load	50 Ohm±5%
Harmonic suppression	>30 dBc

Pin function	
1	SDA
2	SCL
3	RF output
4	Ground (case)
5	Supply voltage

Vibrations:	
Frequency range	10-200 Hz
Acceleration	5 g
Shock:	75 g/ 3±1 ms
Humidity @ 25 ºC	98%
Storage temperature range	-55…+85ºC

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

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), ºC:

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