MINIATURE PRECISION OCXO MV205

Features:

- Package height from 16 mm, down to 10 mm
- High stability vs. temperature: up to ±1x10⁻⁹
- Long term stability up to ±2x10⁻⁸/year
- Fast warm-up time up to 1 min
- Available as RoHS
- Frequency range: 16.384 ... 50.0 MHz

Power supply 12V 5V 3.3 V Package type 36x27x16.0 mm ** B16 36x27x12.7 mm B12.7 36x27x10.0 mm B10

ORDERING GUIDE: MV205 – C 3 G – 12V – SIN – B12.7- LN-20.0 MHz

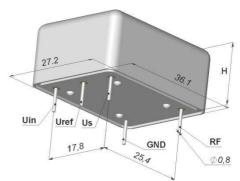
_						
	certa	vailability of ain stability vs. operating perature range	± 5x10 ⁻⁹	± 3×10 ⁻⁹	± 2x10 ⁻⁹	± 1x10 ⁻⁹
	1	for 20 MHz	5	3	2	1
П	Α	0+55 °C	Α	Α	Α	Α
Ш	В	- 10+60 °C	Α	Α	Α	Α
Ц	С	- 20+70 °C	Α	Α	Α	Α
	D	- 40+70 °C	Α	Α	Α	С
- 1	EX	-40+85 °C	Α	Α	Α	С

A – available, NA – not available, C – consult factory For other temperature ranges see designation at the end of Data Sheet

			Standard frequencies											
	ag	ability of certain ing values for ain frequencies	16.384MHz (8.192x2)	20.0MHz (10.0x2)	24.576 (49.152)MHz	25.6MHz (12.8x2)	26.0MHz (13.0x2)	32.768MHz (16.384x2)						
Ш	Н	±2x10 ⁻⁷ / year	Α	Α	Α	Α	Α	Α						
L	G	±1x10 ⁻⁷ / year	Α	Α	Α	Α	Α	С						
	F	±5x10 ⁻⁸ / year	Α	Α	Α	Α	C	NA						
	E	±3x10 ⁻⁸ / year	Α	Α	Α	С	NA	NA						
	D	±2x10 ⁻⁸ / year	Α	Α	Α	NA	NA	NA						

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

Package drawing:



For "H" definition, please see package type

To The definition, please see package type									
Vibrations:									
Frequency range	10-200 Hz								
Acceleration	5 g								
Shock:									
Acceleration	75 g								
Duration	3±1 ms								
Humidity @ 25 °C	98%								
Storage temperature range	-55+85 °C								

Phase noise, dBc/Hz,		Contact Factory				
for 20MHz (10MHz x 2), SIN, 12V, 5 V:	_	LN	ILN			
1 Hz	<-90	<-95	<-100			
10 Hz	<-120	<-125	<-130			
100 Hz	<-135	<-140	<-143			
1000 Hz	<-145	<-150	<-150			
10000 Hz	<-150	<-153	<-153			
100000 Hz	<-150	<-153	<-153			

Short term stability (Allan deviation) per 1 sec, for 20	
MHz (10MHz x 2)	<5x10 ⁻¹²
Optional	<2x10 ⁻¹²
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 Optional,	<3 min
within accuracy of <±1x10 ⁻⁷ @ 25°C	<1 min

Power supply (Us)	12V±5%	5V±5%			
Steady state current consumption @ +25°C	<150 mA	<400 mA			
Peak current consumption during warm- up (for "D" temp. range)	<400 mA	<1000 mA			
Frequency pulling range	>±4.0x10 ⁻⁷				
Control voltage range (Uin)	05 V	04.5V			
Reference voltage (Uref)	+5 V	+4.5 V			

Output		HCMOS	SIN		
Level	"0"	<0.5V	>500 mV RMS		
Level	"1"	>4.0V	>500 mv kivis		
Load	10k	Ohm/30pF	50 Ohm±5%		
Harmonics & sub harmonics			<-50 dBc		
Jitter p-p, for 20 MHz		<100 ps			

Additional notes:

- Please consult factory for daily aging values. Normally typical correspondence of daily to aging per year is as following: ±1x10⁻⁷/year ±1x10⁻⁹/day; ±5x10⁻⁸/year ±5x10⁻¹⁰/day; ±3x10⁻⁸/year ±3x10⁻¹⁰/day
- Please mention RoHS requirement (if any) while requesting for quote or while placing PO.
- 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:

Α	В	C	D	Е	F	G	Н	J	K	L	М	Ν	Р	Q	R	S	Т	J	W	Х
-60	-55	-50	-45	-40	-30	-20	-10	0	+10	+30	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85



Due to continuous development and improvement Morion reserves the right to modify design or specifications of its products without prior notice.