SMALL SIZE ULTRA PRECISION TCXO WITH OCXO STABILITY MV202

Features:

• Frequency range: 9.8304 – 20.MHz

Standard frequencies: 12.288; 12.8 MHz

Low current consumption: < 14 mA

• 5V Power supply

• Stability vs. temperature: up to $\pm 1.5 \times 10^{-7}$

• Aging: up to $\pm 1.5 \times 10^{-7}$ /year

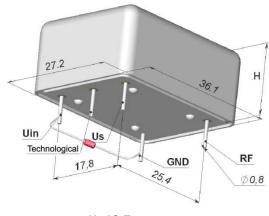
Phase noise, dBc/Hz	S2	S1
10 Hz	-	<-90
100 Hz	<-110	<-120
1000 Hz	<-130	<-140
10000 Hz	<-140	<-145

ORDERING GUIDE: MV202-B 300 H-12.8 MHz-\$1

cert	vailability of ain stability vs. operating perature range	± 5x10 ⁻⁷	± 3x10 ⁻⁷	± 2×10 ⁻⁷	± 1.5×10 ⁻⁷
		500	300	200	150
Α	0+55°C	Α	Α	Α	С
В	-10+60°C	Α	Α	Α	С
C	-20+70°C	Α	Α	Α	С
D	-40+70°C	Α	Α	С	С
		-			

A – available, C – consult factory

Package drawing:



H=12.7 mm

Pins Uin and GND are connected by technological resistor (18 \pm 6 kOhm) to adjust the frequency. This resistor can be removed in time of installation of the oscillator to an electronic device providing the same resistance between the pins Uin and GND.

	Ava	ailability of certain	aging values for	Stand freque	
		certain frequ	10.0	12.8	
			MHz	MHz	
١	J	±5x10 ⁻⁷ /year	±5x10 ⁻⁹ /day	Α	Α
١	-	±3x10 ⁻⁷ /year	±3x10 ⁻⁹ /day	Α	Α
┨	Н	±2x10 ⁻⁷ /year	±2x10 ⁻⁹ /day	Α	С
I	G	±1.5x10 ⁻⁷ /year	±1.5x10 ⁻⁹ /day	С	NA

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

Frequency stability vs. power supply changes	<±2x10 ⁻⁸
Frequency stability vs. load changes	<±5x10 ⁻⁸
Power supply (Us)	5V±10%
Steady state current consumption @ 25°C	< 14 mA
Output	SIN
Level	> 250 mV RMS
Load	50 Ohm ±5%
Harmonic suppression	> 20 dB
Warm-up time within accuracy of <±5x10 ⁻⁷	< 2 s
Frequency pulling range	>±2,0x10 ⁻⁶

Mechanical characteristics						
Vibrations:						
Frequency range	10-500 Hz					
Acceleration	6 g					
Shock:						
Acceleration	500 g/ (0,22) ms					
Duration	100 g/ (15) ms					

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), °C:

Α	В	С	D	E	F	G	Н	J	K	L	М	N	Р	Q	R	S	Т	U	W	Х
-60	-55	-50	-45	-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 reserves the right to modify design or specifications of its products without prior notice. Revision 2. April 2013