LOW PHASE NOISE PRECISIOIN OCXO MV220

Features:

- Package height from 12.7 mm down to 10 mm
- Ultra low phase noise
- High stability vs. temperature: up to $\pm 5 \times 10^{-10}$
- Standard frequency 10.0 MHz

ORDERING GUIDE: MV220-Ç 2 F-Z12.7-10.0 MHz-LN

	stabil	ability of certain ity vs. operating erature range	± 5×10 ⁻⁹	± 3×10 ⁻⁹	± 2×10 ⁻⁹	± 1×10 ⁻⁹	± 5x10 ⁻¹⁰	
			5	3	2	1	05	۱
	Α	0+55°C	Α	Α	Α	Α	Α]l
1	В	-10+60°C	Α	Α	Α	Α	Α	
ı	C	-20+70°C	Α	Α	Α	Α	Α	
1	D	-40+70°C	Α	Α	Α	Α	С	1
۱	EX	-40+85°C	Α	Α	С	С	С] A

available, NA - not available, C - consult factory

For 10 mm height - consult factory

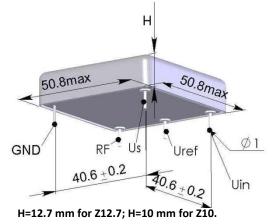
For other temperature ranges see designation at the end of Data Sheet.

	vailability of certain aging values for ertain frequencies	Standard frequency 10 MHz					
G	±1x10 ⁻⁷ /year	Α					
F	±5x10 ⁻⁸ /year	Α					
Е	±3x10 ⁻⁸ /year	Α					

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

Phase noise, dBc/Hz, for 10 MHz, SIN		LN	ULN		
1 Hz	<-90	<-90	<-100		
10 Hz	<-120	<-120	<-133		
100 Hz	<-153	<-153	<-158		
1000 Hz	<-162	<-163	<-163		
10000 Hz	<-165	<-168	<-168		

Package drawing:



Vibrations:	
Frequency range	10-500 Hz
Acceleration	5g
Shock:	
Acceleration	75 g
Duration	3±1 ms
Storage temperature range	-55+85 °C

Short-term stability (Allan deviation) per 1 sec (for 10 MHz)	<5x10 ⁻¹²
Frequency stability vs. load changes	<±5x10 ⁻¹⁰
Frequency stability vs. power supply changes	<±5x10 ⁻¹⁰
Warm-up time within accuracy of <±2x10 ⁸ @ 25°C	<3 min
Power supply (Us)	12V±5%
Steady state current consumption @ 25°C	<230mA
Peak current consumption during warm-up (for "D" temp. range)	<550mA
Frequency pulling range	>±4x10 ⁻⁷
with external voltage range (Uin)	0+5V
Reference voltage (Uref)	+5 V

Output	SIN
Level	>800 mV RMS
Load	50 Ohm±5%
Harmonic suppression	>30dBc

Additional notes:

- Please consult factory for daily aging values. Normally typical correspondence of daily aging per day 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	С	D	E	F	G	Н	J	K	L	М	N	P	Q	R	S	T	U	W	Х
-(60	-55	-50	-45	-40	-30	-20	-10	0	+10	+30	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85

