

# LOW PHASE NOISE PRECISION OCXO MV267

## Features:

- Ultra low phase noise
- High stability vs. temperature: up to  $\pm 5 \times 10^{-10}$
- Power supply: 12V
- Output frequency: 5.0; 10.0 MHz

## ORDERING GUIDE: MV267C 1 F- 5 MHz -LN

Availability of certain stability vs. operating temperature range (5 MHz)		$\pm 3 \times 10^{-9}$	$\pm 2 \times 10^{-9}$	$\pm 1 \times 10^{-9}$	$\pm 5 \times 10^{-10}$
		3	2	1	05
A	0...+55°C	A	A	A	A
B	-10...+60°C	A	A	A	A
C	-20...+70°C	A	A	A	C
D	-40...+70°C	A	A	C	C
EX	-40...+85°C	A	C	C	NA

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

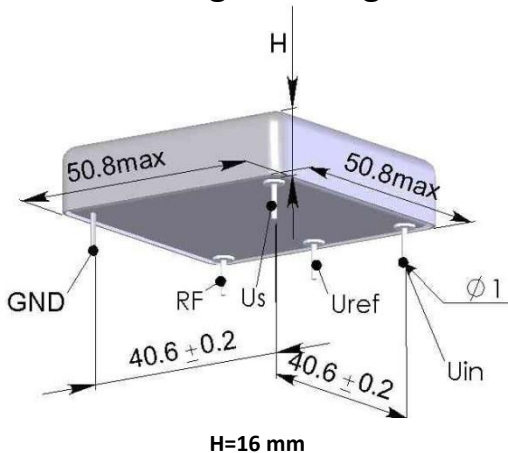
For other temperature ranges see designation at the end of Data Sheet.

Availability of certain aging values for certain frequencies	Standard frequency	
	5 MHz	10 MHz
F $\pm 5 \times 10^{-8}$ /year	A	A
E $\pm 3 \times 10^{-8}$ /year	A	A
D $\pm 2 \times 10^{-8}$ /year	A	A
C $\pm 1 \times 10^{-8}$ /year	A	C

A – available, C – consult factory

Phase noise, dBc/Hz	5 MHz			10 MHz		
	-	LN	ULN	-	LN	ULN
1 Hz	<-110	<-115	<-118	<-102	<-107	<-112
10 Hz	<-140	<-145	<-148	<-130	<-135	<-138
100 Hz	<-150	<-153	<-155	<-150	<-153	<-153
1000 Hz	<-158	<-160	<-160	<-158	<-160	<-160
10000 Hz	<-160	<-161	<-161	-	-	<-160

## Package drawing:



Short-term stability (Allan deviation) per 1 s	< $2 \times 10^{-12}$
Optional:	< $7 \times 10^{-13}$ < $5 \times 10^{-13}$
Frequency stability vs. load changes	< $\pm 2 \times 10^{-10}$
Frequency stability vs. power supply changes	< $\pm 2 \times 10^{-10}$
Warm-up time within accuracy of $\pm 2 \times 10^{-8}$ @ 25°C	<5 min
Power supply (Us)	12V $\pm$ 5%
Steady state current consumption @ 25°C	<250mA
Peak current consumption during warm-up	<550mA
Frequency pulling range	> $\pm 3 \times 10^{-7}$
with external voltage range (Uin)	0...5V
Reference voltage (Uref)	+5 V

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

Output	SIN
Level	>500 mV RMS
Load	50 Ohm $\pm$ 5%
Harmonic suppression	>30dBc

## 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:

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

