

# MINIATURE HIGH FREQUENCY PRECISION LOW PHASE NOISE OCXO MV269M

## Features:

- Small package size 21x13x9.5 mm (DIL 14)
- Low Phase Noise <-180 dBc/Hz @ 100 kHz offset
- Frequency: 100.0 MHz

## ORDERING GUIDE: MV269M-C 100 J-SIN-2-100.0MHz

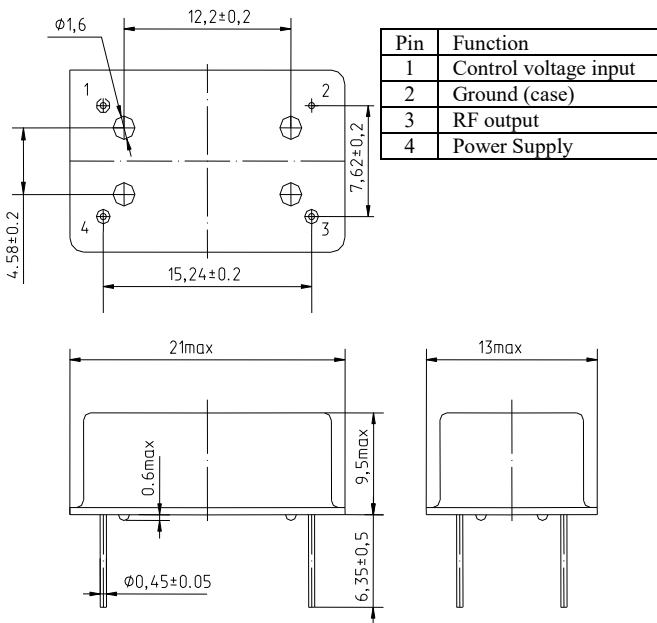
Availability of certain stability vs. operating temperature range		$\pm 5 \times 10^{-7}$	$\pm 3 \times 10^{-7}$	$\pm 1 \times 10^{-7}$	$\pm 7.5 \times 10^{-8}$	$\pm 5 \times 10^{-8}$
		500	300	100	75	50
A	0...+55°C	A	A	A	A	A
B	-10...+60°C	A	A	A	A	A
C	-20...+70°C	A	A	A	C	NA
D	-40...+70°C	A	A	C	NA	NA
EX*	-40...+85°C	A	NA	NA	NA	NA

Phase noise for 100 MHz, dBc/Hz					
Option	1	2	3*	4*	
10 Hz	<-95	<-98	<-100	<-102	
100 Hz	<-127	<-130	<-133	<-135	
1000 Hz	<-157	<-160	<-162	<-163	
10000 Hz	<-172	<-172	<-177	<-175	
100000 Hz	<-174	<-176	<-180	<-178	

\* SIN only

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



\* SIN only

Aging	
J	$\pm 5 \times 10^{-7}$ /year
I	$\pm 3 \times 10^{-7}$ /year
H	$\pm 2 \times 10^{-7}$ /year
G	$\pm 1 \times 10^{-7}$ /year

Power supply (Us)	5 V $\pm$ 5 %	
Steady state current consumption @ 25°C	< 250 mA	
Peak current consumption during warm-up @ 25°C	< 500 mA	
Frequency pulling range <sup>1)</sup>	$\geq \pm 2 \times 10^{-6}$	
with external control voltage range	0...+4.5 V	
Slope	positive	
Input impedance	100 kOhm	
Frequency stability vs. load changes	< $\pm 2 \times 10^{-8}$	
Frequency stability vs. power supply changes	< $\pm 5 \times 10^{-8}$	
Warm-up time within accuracy of < $\pm 2 \times 10^{-7}$ @ 25°C $\pm 2 \times 10^{-7}$ , min	< 2	
Output	HCMOS	SIN
Level		
-Logical «1»	$\geq 3.2$ V	> 400 mV
-Logical «0»	$\leq 0.2$ V	
Load	Pls see <sup>2)</sup>	50 Ohm
Harmonics	-	< -20dB

- 1) sufficient to compensate aging during life time  
 2) corresponds to IC NC7SZU04

Shock:	
-Acceleration	100 g
-Storage temperature range	-55...+85 °C

Vibrations:	
Frequency range	10-2000 Hz
Acceleration	5 g

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

