

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 range: 100 MHz

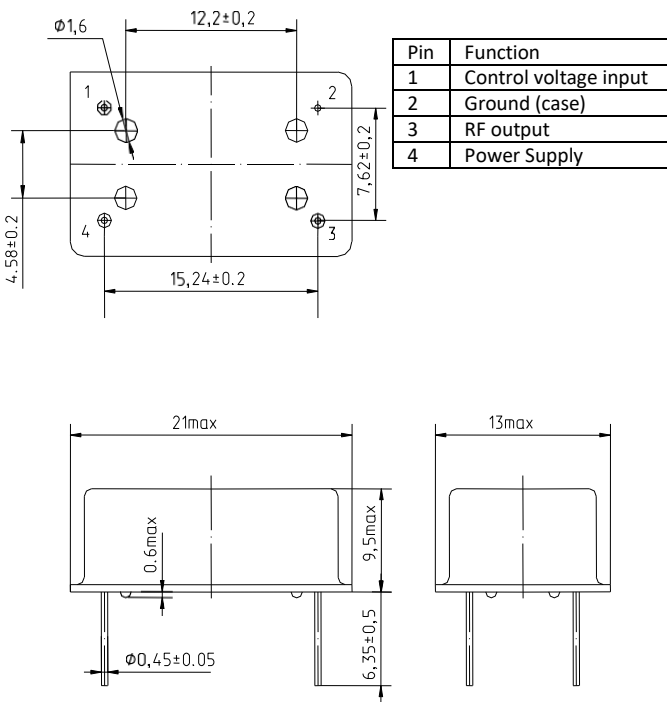
Output signal
SIN
HCMOS

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

Availability of certain stability vs. operating temperature range		± 5x10 ⁻⁷	± 3x10 ⁻⁷	± 1x10 ⁻⁷	± 7.5x10 ⁻⁸	± 5x10 ⁻⁸
		500	300	100	75	50
A	0...+55 °C	A	A	A	A	A
B	-10...+60 °C	A	A	A	A	C
C	-20...+70 °C	A	A	A	C	NA
D	-40...+70 °C	A	A	C	C	NA
EX	-40...+85 °C	A	NA	NA	NA	NA

Phase Noise for 100 MHz, dBc/Hz				
Option	1	2	3 (SIN)	4 (SIN)
10 Hz	<-95	<-98	<-100	<-102
100 Hz	<-127	<-130	<-133	<-135
1 kHz	<-157	<-160	<-162	<-163
10 kHz	<-172	<-172	<-177	<-175
100 kHz	<-174	<-176	<-180	<-178

Aging	
J	±5x10 ⁻⁷ / year
I	±3x10 ⁻⁷ / year
H	±2x10 ⁻⁷ / year
G	±1x10 ⁻⁷ / year



Power supply (Us)	5.0 V±5%	
Steady state current consumption @ 25°C	< 250 mA	
Peak current consumption during warm-up @ 25°C	< 500 mA	
Frequency pulling range (Note 1)	≥±2 x10 ⁻⁶	
External control voltage	0...+4.5 V	
Slope	Positive	
Input Impedance	100 kOhm	
Frequency stability vs. power supply changes	<±2x10 ⁻⁸	
Warm-up time within accuracy of <±2x10 ⁻⁷ @ 25°C ±2x10 ⁻⁷ , min	< 2	
Output	HCMOS	SIN
-Logical «1», V	≥3.6	400 mV
-Logical «0», V	≤0.4	
Load	See note 2	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



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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.

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