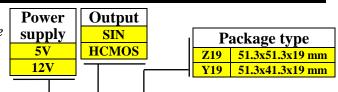
DOUBLE OVEN LOW PROFILE ULTRA PRECISION OCXO MV180

Features:

- Low sensitivity to rapid changes of ambient temperature
- Low profile package with the height of 19 mm
- High stability vs. temperature: up to $\pm 1 \times 10^{-10}$
- Available as RoHS



Standard frequencies

10.0

MHz

A

A

A

16.384

MHz

A

A

8.192

MHz

A

A

ORDERING GUIDE: MV180-B 02 $E-\overline{12V}-\overline{SIN}-\overline{Z19}-10.0$ MHz

	cei v	vailability of rtain stability s. operating emperature	±1x10-9	±5x10 ⁻¹⁰	±3x10 ⁻¹⁰	±2x10 ⁻¹⁰	±1x10 ⁻¹⁰
		•	1	05	03	02	01
	A	0+55 °C	A	A	A	A	A
Ч	В	- 10+60 °C	A	A	A	A	A
۱	C	- 20+70 °C	A	A	A	A	C
1	D - 40+70 °C		A	A	A	C	NA

C	±1x10 ⁻⁸ /year	C	NA	C	NA
Δ _ a	vailable, NA – r	not avail	able C-	- consult	factory

5.0

MHz

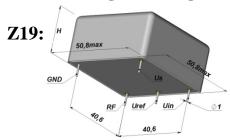
A

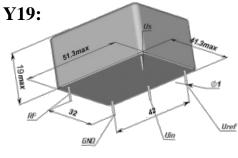
A

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

For other temperature ranges see designation in the order guide

Package drawings:





Short term stability (Allan deviation) per 1 sec, for 5 MHz and 10 MHz	<2x10 ⁻¹²						
Frequency stability vs. load changes	<±1x10 ⁻¹⁰						
Frequency stability vs. power supply changes		<±12	x10 ⁻¹⁰				
Warm-up time with accuracy of <±1x10 ⁻⁸ @25°C		<10 min					
Power supply (Us)	12V:	±5%	5V±5%				
Steady state current consumption @ 25°C	< 250	0 mA	< 600 mA				
Peak current consumption during warm-up:	< 700) mA	< 1.4 A				
For "D" temperature range:	< 900	0 mA	Consult				
Frequency pulling range		>±3:	x10 ⁻⁷				
with external control voltage range (Uin)	0	+5 V	0+4 V				
Reference voltage (Uref)	+5	\mathbf{V}	+4 V				
	CI	IN					
Output	SIN 5 V 12 V		HCMOS				
Level, dBm	+5±2	+7±2	<0.5V / >4.5V				
Load	50 Ohr	n±10%	10kOhm/30pF				
Harmonic and subharmonics suppression	>35	dBc	-				
	0 10	NATT.	6 F. 7 T. T. T.				
Phase noise, typical, dBc/Hz		MHz	for 5 MHz				
1 Hz	-1	00	-105				
10 Hz	-1	25	-130				
100 Hz	-1	40	-145				
1000 Hz	-1	45	-150				
10000 Hz	-1	50	-155				

Availability of

certain aging

values for certain

frequencies ±5x10⁻⁸/year

D

±3x10⁻⁸/year

±2x10⁻⁸/year

ADDITIONAL NOTES:

• Showed values of frequency stability vs. temperature usually are tested in still air test conditions. Please inform factory about different condit to provide appropriate tests.

out different condition	ns in operation	ľ	
Acceleration	5g		
Frequency range	10-500 Hz		
Vibrations:			

Shock: Acceleration Duration	15 g 2±0.5 ms
Storage temperature range	-55+80 °C

- Please consult factory for daily aging values. Normally typical correspondence of daily aging per day to aging per year is as following: $\pm 5 \times 10^{-8}$ /year $\pm 5 \times 10^{-10}$ /day; $\pm 3 \times 10^{-8}$ /year $\pm 3 \times 10^{-10}$ /day; $\pm 2 \times 10^{-8}$ /year $\pm 2 \times 10^{-10}$ /day; $\pm 1 \times 10^{-10}$ /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:

A	В	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