PRECISION SMALL SIZE OCXO MV178

Features:

- Stability vs. temperature up to $\pm 5.0 \times 10^{-9}$
- Small size of 36.1x27.2x15 mm
- 3.3V or 5V power supply
- Frequency range 5.0 10.0 MHz
- Available as RoHS

Power Supply
3.3V
5V

ORDERING GUIDE: MV178 – \underline{B} 10 \underline{F} – $\overline{[5V]}$ – 10.0 MHz

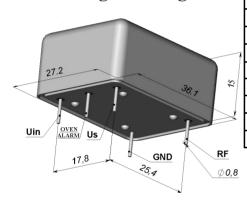
	cert	vailability of rain stability vs. operating perature range	±3x10 ⁻⁸	±1x10-8	±5x10 ⁻⁹		
	CCIII	peracure runge	30	10	5		
Ш	A	0+55 °C	A	A	A		
Ш	В	- 10+60 °C	A	A	A		
Ц	C	- 20+70 °C	A	A	A		
ı	D	- 40+70 °C	A	A	C		
	EX	-40+85°C	A	A	NA		

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

	Av	ailability of	Standard frequencies								
	ce valu	rtain aging es for certain requencies	5.0 MHz	8.192 MHz	10.0 MHz						
I	G	±1x10 ⁻⁷ /year	A	A	A						
	F	±5x10 ⁻⁸ /year	A	A	A						
	E	±3x10 ⁻⁸ /year	A	A	A						
	D	±2x10 ⁻⁸ /year	A	NA	NA						

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

Package drawing:



Short term stability (Allan deviation) per 1 sec	$<2x10^{-11}$			
Frequency stability vs. load changes	<±5x10 ⁻⁹			
Frequency stability vs. power supply changes	<±5x10 ⁻⁹			
Power supply	3.3V±5%	5V±5%		
Current consumption at steady state @ 25°C	<380 mA	<300 mA		
Peak current consumption during warm-up @ 25°C	<1.2 A	<0.8 A		
Warm-up time within <±1x10 ⁻⁷ @ 25 °C	<3 min			
Frequency pulling range	>±5x10 ⁻⁷			
with external voltage range	0+3.0 V	0+4.5 V		

Vibrations:	
Frequency range	10-500 Hz
Acceleration	10g
Shock:	
Acceleration	100 g
Storage temperature range	-55+85 °C

Output	HCMOS
Load	10 kOhm / 15 pF
Phase noise, (for 10 MHz)	
1 Hz	<-80 dBc/Hz
10 Hz	<-115 dBc/Hz
100 Hz	<-135 dBc/Hz
1000 Hz	<-145 dBc/Hz
10000 Hz	<-148 dBc/Hz

ADDITIONAL NOTES:

- Showed values of frequency stability vs. temperature usually are tested in Still Air test conditions. Please inform factory about different conditions in operation to provide appropriate tests.
- 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:

1	1	В	C	D	E	F	G	Н	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

