

HIGH FREQUENCY PRECISION LOW PHASE NOISE OCXO MV358

PRELIMINARY INFORMATION

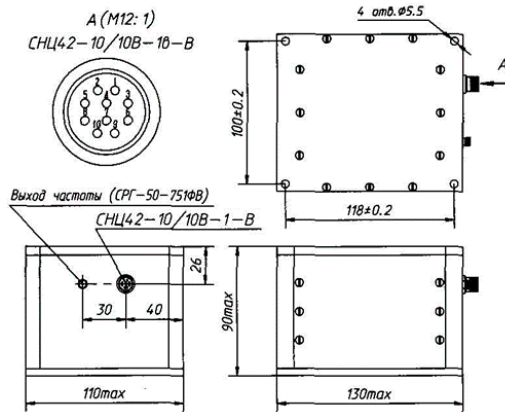
Features:

- High stability vs. temperature
- Low phase noise options
- Wide operating temperature range
- Phase noise degradation under the external factors is almost excluded

ORDERING GUIDE: MV358 – C 300 K– 2 – 100.0MHz

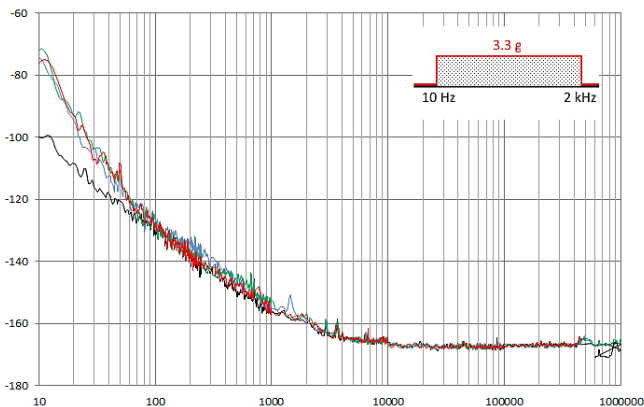
Availability of certain stability vs. operating temperature		$\pm 5 \times 10^{-7}$	$\pm 3 \times 10^{-7}$	$\pm 2 \times 10^{-7}$	$\pm 1 \times 10^{-7}$
		500	300	200	100
A	0...+50°C	A	A	A	C
B	-10...+60°C	A	A	C	NA
C	-20...+70°C	A	A	C	NA
D	-40...+70°C	A	C	C	NA

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



Output destinations for low-frequency connector:

1, 6, 7, 9 - not in use; 2, 3 - GND; 4 - Uref; 5 - Uin; 8, 10 - +12V Us.



— free
— x axis
— y axis
— z axis

Aging	
K	$\pm 1 \times 10^{-6}$ /year
L	$\pm 2 \times 10^{-6}$ /year
N	$\pm 5 \times 10^{-6}$ /year

Frequency range: 48.0-100.0
Standard frequencies: 48.0; 56.0; 84.0; 100.0

Phase noise, dBc/Hz:						
Frequency, MHz	48.0 – 50.0		50.0 – 70.0		70.0 – 100.0	
Option	1	2	1	2	1	2
100 Hz	<-135	<-135	<-130	<-130	<-125	<-125
1000 Hz	<-145	<-150	<-145	<-150	<-145	<-150
10000 Hz	<-160	<-162	<-160	<-162	<-160	<-162

Frequency stability vs. load changes	$\leq \pm 5 \times 10^{-8}$
Frequency stability vs. power supply changes	$\leq \pm 1 \times 10^{-7}$
Dynamic g-sensitivity	<3E-11
Frequency pulling range	$\geq \pm 3 \times 10^{-6}$
With external voltage range	0...+8 V
Reference voltage (Uref)	+ 10...+11 V
Power supply (Us)	12 V $\pm 10\%$
Steady state current consumption @ -55 °C	≤ 600 mA
Peak current consumption during warm-up @ -55°C	≤ 800 mA
Output	SIN
Level	≥ 400 mV
Load	50 Ohm $\pm 10\%$
Harmonic suppression	≥ 25 dBc

Random vibration:	
Frequency range	10-2000 Hz
Acceleration	3.3 g
Shock:	
Acceleration	100 g
Duration	0.1-2.0 ms
Acoustic noise vs. frequency range	100-10000 Hz
Sound pressure	135 dBc
Storage temperature range	-60...+70°C

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