SMALL SIZE HIGH STABILITY TCXO MV120

Features:

- Excellent frequency stability vs. temperature
- Wide operating temperature range
- Frequency range 9.6-20.0 MHz

ORDERING GUIDE: MV120 - B - 1500 - K - LN - 10.0 MHz

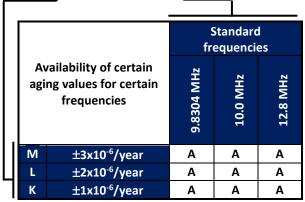
cer	Availability of tain stability vs. operating operature range	± 2×10 ⁻⁶	± 1.5×10 ⁻⁶	± 1.0x10 ⁻⁶	± 7.0x10 ⁻⁷	
		2000	1500	1000	700	
Α	0+55 °C	Α	Α	Α	Α	
В	- 10+60 °C	Α	Α	Α	С	
C	- 20+70 °C	Α	Α	Α	NA	

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

Package drawing and pin designation

- 1. Frequency adjustment
- 2. GND
- 3. RF-output
- 4. Power supply

Pins #1 and #2 are connected by technological resistor to adjust the frequency. This resistor can be removed in time of installation of the oscillator to an electronic device providing * For frequencies 9.6 - 12.8 MHz the same resistance between the pins #1 and #2.



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

Output	SIN				
Level	200 350 mV				
Load	500 Ohm±10%				
Phase noise (dBc/Hz) at	-	LN*			
offset (for 10 MHz): 1 Hz	-60	-65			
10 Hz	-90	-95			
100 Hz	-120 -120				
1000 Hz	-140	-140			

	21max	9.5max
RF	Us	Uin
GND		\$0,45 \$7,6 ±0,2

Short term stability (Allan deviation) per 1 s	< 1.0x10 ⁻⁹
Frequency stability vs. load changes	< ±3.0x10 ⁻⁷
Frequency stability vs. power supply changes	<±2.0x10 ⁻⁷
Output	SIN
Level	200-350 mV
Power supply (Us)	12 V (+5%, -30%)
Current consumption	<5 mA
Start-up time	<1s
Frequency pulling range	>±8.5x10 ⁻⁶
Harmonics suppression	> 30 dB

-50+70 °C
1-500 Hz, 10 g
500 g, 2 ms
hermetical
98%

Additional notes:

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

Α	В	С	D	E	F	G	Н	J	K	L	М	N	Р	Q	R	S	Т	U	W	Х
-60	-55	-50	-45	-40	-30	-20	-10	0	+10	+30	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85

