

HIGH STABILITY SMALL SIZE TCXO MV176

Features:

- SMD miniature package
- Frequency range: 5.0 – 52.0 MHz
- High stability vs. temperature: up to 0.1×10^{-6}
- Ideal for STRATUM III, COSPAS-SARSAT

Power supply	
2.8 V	2.8
3 V	3
3.3 V	3.3
5 V	5

ORDERING GUIDE: MV176-VCTCXO-C 500 K-12.8M-SIN-3-75-B1

	VCTCXO	TCXO
Frequency pulling range	$> \pm 5.0 \times 10^{-6}$	-
Setting accuracy @ +25 °C	$\leq \pm 1.0 \times 10^{-6}$ ($\leq \pm 0.5 \times 10^{-6}$ consult factory)	

Availability of certain aging values for certain frequencies/year	Standard frequencies, MHz						
	10.0	12.688375	12.688656	12.8	19.2	20.0	33.6, 40.0; 50.0
J $\pm 5 \times 10^{-7}$	A	C	C	C	C	C	C
K $\pm 1 \times 10^{-6}$	A	A	A	A	A	A	A

A – available, C – consult factory

Frequency vs. supply voltage changes $\pm 5\%$	$\pm 0.2 \times 10^{-6}$
Frequency stability vs. load changes $\pm 5\%$	$\pm 0.1 \times 10^{-6}$
Power spectral density of phase noise at offset, for 12.8 MHz, dB/Hz	100 Hz -120
	1 kHz -140
	10 kHz -150

Output type	clipped SIN	HCMOS
Consumption, mA	<4	<6
Level, V	> 0,8 V (ampl. value)	$U_H > 0.9 U_s$ $U_L < 0.1 U_s$
Load	10 kOhm 10 pf	- 15 pf

Pinout:			
Contact		TCXO	VCTCXO
75	75/1		
#1	#1	Not in use	Uin
#2, 3, 4	-	Not in use	
#5	#2	GND	
#6	#3	RF	
#7, 8	-	Not in use	
#9	-	Not in use	
#10	#4	Us	

	Availability of certain stability vs. operating temperature range for 10 MHz	Stability vs. temperature range					
		2000	1000	500	280	140	100
A	0...+55°C	A	A	A	A	A	A
B	-10...+60°C	A	A	A	A	A	A
C	-20...+70°C	A	A	A	A	A	C
EX	-40...+85°C	A	A	A	A	C	NA
BX	-55...+85°C	A	C	NA	NA	NA	NA

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

Power supply Us, V	Control voltage Uin, V		
	Value for which $f=f_{nom}$	Range	Option
2.8±5%	1.50	0.5-2.5	A1
	1.65	0.65-2.65	A2
3.0±5%	1.50	0.5-2.5	B1
	1.65	0.65-2.65	B2
3.3±5%	1.50	0.5-2.5	C1
	1.65	0.65-2.65	C2
5.0±5%	1.5	0.5-2.5	D1
	1.65	0.65-2.65	D2
	2.5	1.5-3.5	D3
	2.5	0.5-4.5	D4

Package, mm	7.0 x 5.0 x 2.0	75
		75/1*

*Not recommended for use in new developments

