

HIGH STABILITY SMALL SIZE TCXO MV176

Features:

- SMD miniature package
- Frequency range 5 - 52 MHz
- High stability vs. temperature up to 0.1×10^{-6}
- Ideal for STRATUM III, COSPAS/ Sarsat

ORDERING GUIDE: MV176 [VCTCXO]-C 500 K-12.8MHz-SIN-B1-75

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

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

Frequency vs. supply voltage changes $\pm 5\%$	$\pm 0.1 \times 10^{-6}$	
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	SIN	HCMOS
Consumption, mA	<4	<6
Level, V	0,8 B (clipped SIN, p-p)	$U_H > 0.9 U_S$ $U_L < 0.1 U_S$
Load	10 kOhm 10 pf	- 15 pf

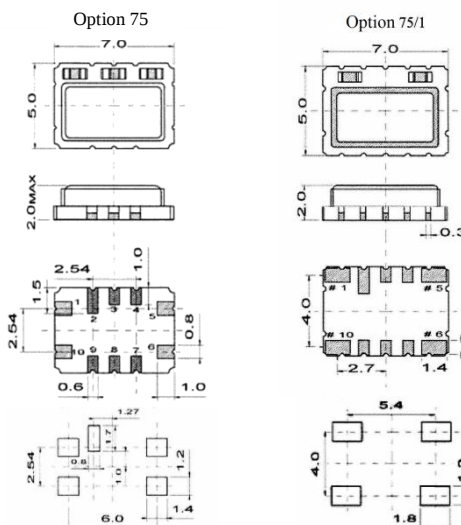
Pinout: 7.0 x 5.0 x 2.0		
Contact	TC	VCTCXO
#1	GND	Uin
#5	GND	
#6	RF	
#9	Not in use or Tri-state function	
#10	Us	

Availability of certain stability vs. operating temperature range for 10MHz		$\pm 1.00 \times 10^{-6}$	$\pm 0.50 \times 10^{-6}$	$\pm 0.28 \times 10^{-6}$	$\pm 0.14 \times 10^{-6}$	$\pm 0.10 \times 10^{-6}$
		1000	500	280	140	100
JT	0...+70 °C	A	A	A	A	A
B	-10...+60 °C	A	A	A	A	A
C	-20...+70 °C	A	A	A	A	C
EX	-40...+85 °C	A	A	A	C	NA
BX	-55...+85 °C	A	C	NA	NA	NA

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

Power supply U_s , V	Control voltage U_{in} , V		
	Value for which $f=f_{nom}$	Range	Option
2.8 $\pm$ 5%	1,50	0.5-2.5	A1
	1,65	0.65-2.65	A2
3.0 $\pm$ 5%	1,50	0.5-2.5	B1
	1,65	0.65-2.65	B2
3.3 $\pm$ 5%	1,50	0.5-2.5	C1
	1,65	0.65-2.65	C2
5.0 $\pm$ 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
-------------	-----------------	----



* Option 75/1 is not recommended for use in new developments