HIGH STABILITY FAST WARM-UP LOW POWER CONSUMPTION OCXO MV80

Features:

- Short warm-up time: less than 60 seconds
- Frequency stability vs. temperature: up to $\pm 2x10^{-8}$
- Option with 5 V power supply
- Very low power consumption: up to 0.2 W

• Low phase noise

Frequency range: 9.5 – 10.5 MHz Standard frequency: 10.0 MHz

ORDERING GUIDE: MV80-C 30 H-60-SIN-12V-10.0 MHz

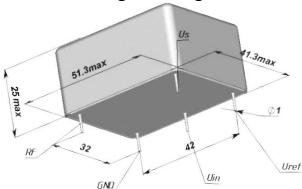
	stabi	lability of certain lity vs. operating operature range	±1×10-7	±5x10 ⁻⁸	±3×10 ⁻⁸	±2×10 ⁻⁸	
			100	50	30	20	
	Α	0+55°C	Α	Α	Α	Α	
	В	-10+60°C	Α	Α	Α	Α	
	С	-20+70°C	Α	Α	Α	С	
1	D	-40+70°C	Α	Α	С	С	

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

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

Warm-up time **Power Supply** within ±5x10⁻⁷ @ 25°C 12 V 60 seconds 5 V 90 90 seconds Aging Output type ±3x10⁻⁷/year SIN ±2x10⁻⁷/year Н **HCMOS** ±1x10⁻⁷/year

Package drawing:



Output	SIN	HCMOS				
Level	>225 mV (0dBm)	5 V/ 4060%				
Load	50 Ohm±5%	10 kOhm/15 pF				
Harmonic suppression	>30dB					
Phase noise, typical (for						
10 MHz) @ 1 Hz	-90 dBc/Hz	-90 dBc/Hz				
10 Hz	-125 dBc/Hz	-120 dBc/Hz				
100 Hz	-140 dBc/Hz	-135 dBc/Hz				
1000 Hz	-150 dBc/Hz	-145 dBc/Hz				
10000 Hz	-155 dBc/Hz	-150 dBc/Hz				

Short term stability (Allan deviation)	<3x10 ⁻¹¹							
per 1 sec, typical	SXIU							
Frequency stability vs. load changes	<±3x10 ⁻⁹							
Frequency stability vs. power supply changes		<±3x10 ⁻⁹						
Power supply (Us)	5 V 12 V							
Output	NIS	нсмоѕ	NIS	HCMOS				
Steady state current consumption, mA @ 25°C	40	50	35	40				
- at low operating temperature, mA	65	75	45	50				
Peak current consumption during warm-up	250 mA 150 mA							
Frequency pulling range		>±7.5x10 ⁻⁷						
with external voltage range (Uin)	0+4.5 V 0+5.0 V							
with external potentiometer	20 kOhm							
Reference voltage output (Uref)	+4.5 V +5.0 V							
Slope	Positive							
Vibrations	10-200 Hz, 8g							
Shock	100g, 3 ms							

Additional notes:

- Please consult factory for daily aging values. Normally typical correspondence of daily aging per day to aging per year is as following: $\pm 5 \times 10^{-7}$ /year $\pm 5 \times 10^{-9}$ /day; $\pm 3 \times 10^{-7}$ /year $\pm 3 \times 10^{-9}$ /day; $\pm 2 \times 10^{-7}$ /year $\pm 2 \times 10^{-9}$ /day.
- 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	Е	F	G	Η	J	K	L	Μ	N	P	σ	R	S	T	5	W	X
-60	-55	-50	-45	-40	-30	-20	-10	0	+10	+30	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85



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