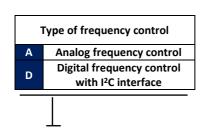
Features:

- Standard frequency: 10.0 MHz
- Short term stability (Allan deviation): up to 1.5x10⁻¹³
- Stability vs. temperature: up to ±4x10⁻¹¹
- High long-term stability: up to ±1x10⁻⁸/year
- Ultra low phase noise level close to the carrier
- Power supply: 12 V
- Analog or Digital frequency control
- Available as RoHS



ORDERING GUIDE: MV336M -	- JR 005	D – 10.0M –	LN - D -	2E-13
		Т	$\overline{}$	

stabi	lity vs. operating	±5×10 ⁻¹¹	±4×10 ⁻¹¹
tem	iperature range	5E-11	4E-11
Α	0+55°C	Α	Α
JR	0+60°C	Α	С
HT	-10+70°C	Α	С
	stabi tem A JR	JR 0+60°C	temperature range

A – Available; C – Consult factory.

	Availability of certain aging values for certain									
	frequencies									
F	±5x10 ⁻⁸ /year									
Е	±3x10 ⁻⁸ /year									
D	±2x10 ⁻⁸ /year									
C	±1x10 ⁻⁸ /year									

Phase noise, dBc/Hz:		LN	ULN
0,1 Hz	<-80	<-85	<-92
1 Hz	<-113	<-116	≤-119120
10 Hz	<-143	≤-144	≤-145
100 Hz	<-154	<-156	<-157
1000 Hz	<-160	<-160	<-160
10000 Hz	<-160	<-160	<-160

50max	- -	12	92max 84±0,2 72max	
	1+6	(0	O
	0x 0.2	o		Φ
	80max 70±0.2	Ф		(D
	3-a2	O	∍in n	4holes
18±0.5	21.5±0.2	8±0.15	2 3 4 5 6 7	(5±0,15)x5

Frequency stability vs. load changes (±5%)	<±2x10 ⁻¹¹						
	<3x10 ⁻¹³	3E-13					
Short term stability (Allan deviation) per 1 sec.	<2x10 ⁻¹³ 2E-13						
	<1.5x10 ⁻¹³	1.5E-13					
Frequency pulling range	≥±1.0	∢10 ⁻⁻					
with external control voltage range (Uin)	05	V					
Digital frequency control with I ² C inte	erface						
Frequency stability vs. power supply changes (±1%)	<±2x10 ⁻¹¹						
Warm-up time within accuracy of <±5x10 ⁻⁸ @ 25 ^O C	<14 min.						
Power supply (Us)	pply (Us) 12 V±1%						
Steady state current consumption @ +25°C ("still air")	<650 mA*						
Peak current consumption during warm-up	<1600 mA						
Output	SIN						
Level	≥+4 dBm						
Load	50						
Harmonics	≥30 c	Bc					

Pin	Analog	Digital
1	Output signal (SMA)	Output signal (SMA)
2	Ground (case)	Ground (case)
3	Control voltage Input	Not used
4	Ground for control	SCLK
	voltage Input	SCLK
5	Not used	DIN
6	Not used	CS
7	Power supply	Power supply

^{*} for 0...55°C operating temperature range only.

Vibrations:	
Frequency range	10-200 Hz
Acceleration	5 g
Shock	75 g/ 3±1 ms
Humidity @ 25 ^O C	98%
Storage temperature range	-55+85 ⁰ C

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:

101	lower mine, second letter for the apper mine, e.																			
Α	В	С	D	E	F	G	Н	J	K	L	M	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

