## **ULTRA MINIATURE OCXO MV118**

**Power Supply** 

5 V

<mark>3.3 V</mark>

## Features:

- Small package of 20x20x10 mm
- High stability vs temperature up to  $\pm 1 \times 10^{-8}$
- Frequency range: 10.0 25.0 MHz
- 3.3V or 5V supply voltage
- Available as RoHS
- *Output type HCMOS*

ORD	ERING G	UIL	<b>)E:</b> ]	MV1	18–	<u>B 20</u>	- <u>G</u>	– 3.3V – <u>10.0 M</u>	<u>Hz</u>							
Availability of		10 <sup>-7</sup>	8-01	0- <sup>8</sup>	0-8	11		vailability of certain	Standard frequencies, MHz							
v	rtain stability s. operating emperature	±1x10 <sup>-7</sup>	±5x10 <sup>-8</sup>	±2x10 <sup>-8</sup>	±1x10 <sup>-8</sup>		ag	ing values for certain frequencies	10,0	12,8	13,0	16,384	20,0			
	-	100	50	20	<b>10</b>		H	±2.0x10 <sup>-7</sup> /year	Α	Α	Α	Α	Α			
A	0+55°C	A	A	A	C	-	G	±1.0x10 <sup>-7</sup> /year	Α	Α	Α	Α	С			
B	- 10+60 °C	A	A	A	C		F	±5.0x10 <sup>-8</sup> /year	Α	Α	Α	С	NA			
C	- 20+70 °C	A	A	A	NA		E	±3.0x10 <sup>-8</sup> /year	A	C	C	NA	NA			
D EX	- 40+70 °C	A	A C	C	NA NA			vailable, NA – not availab					1 11			
	- 40+85 ℃ ailable, NA – not a	A	-	NA noult for												
					•		-	ability vs. load changes		<±5x10 <sup>-9</sup>						
For other temperature ranges see designation at the end of Data Sheet							ency stał es	pility vs. power supply		<±5x10 <sup>-9</sup>						
						Power	supply	y (Us)	<mark>5</mark> 7	5V±5%		3.3V±5%				
						Curre	ent cons	sumption at steady state	< 1	< 150 mA		< 250 mA				
]	Package dra	wing	g:				current -up @ 2	consumption during 25°C	< 4	< 450 mA		< 700 mA				
(								e within <±1x10 <sup>-7</sup> @ 25 °C		<3 min						
	Rf GND							ulling range		>±5x10 <sup>-7</sup>						
				*1		-		voltage range (Uin)	0	0+4.5 V 0+3.0			) V			
_				ma.				nal potentiometer	20 kOhm							
20max								tage output (Uref)	+ 4	+ 4.5 V +3.0			V			
Js							g slope		Positive							
							it it		HCMOS							
$15.24 \pm 0.2$						Load				10 kOhm/15 pF						
10	75.24	0.0	Uin			Level	High/L	<b>/OW</b>		4.5/0.5V 3.0/0.3V						
	Urer	1	0///		_	Phase	noise.	dB/Hz, at	10	- 13		<mark>&gt; 13 - 2</mark>	25			
Vibrations:						,		1Hz		MHz						
	ency range			500 Hz				1 Hz	<	<b>90</b>		<-75				
	eration			10g	_			10 Hz	<	-120		<-105	5			
Shock	: eration		_	/5 g				100 Hz	<	-140		<-125	5			
Durat				0				1000 Hz		-145		<-135	5			
Duration3±1 msStorage temperature range-55+85 °C								10000 Hz		-150		<-145	;			
Additional notes:							term st	tability (Allan deviation)								

## Additional notes:

Showed values of frequency stability vs. temperature usually are tested in Still Air test conditions. Please inform factory about different conditions in operation to provide appropriate tests.

per 1 sec, typical

<1x10<sup>-11</sup>

 $<2x10^{-11}$ 

- Please consult factory for daily aging values. Normally typical correspondence of daily aging per day to aging per year is as following:  $\pm 2 \times 10^{-7}$ /year -  $\pm 2 \times 10^{-9}$ /day;  $\pm 1 \times 10^{-7}$ /year -  $\pm 1 \times 10^{-9}$ /day;  $\pm 5 \times 10^{-8}$ /year -  $\pm 5 \times 10^{-10}$ /day.
- Please mention RoHS requirement (if any) while requesting for quote or while placing PO.
- 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), <sup>o</sup>C:

Α	B	С	D	Е	F	G	Н	J	K	L	Μ	Ν	Р	Q	R	S	Т	U	W	X
-60	-55	-50	-45	-40	-30	-20	-10	0	+10	+30	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85

