Features:

- High stability vs. temperature: up to $\pm 5 \times 10^{-9}$
- Standard 25.4x22x12.5(10.0) mm SMD package
- Oven alarm function
- Power supply: 3.3V, 5V and 12V
- **Available as RoHS**

В

C

D

Frequency range: 10.0 - 40.0 MHz

Power supply Package type 12 V 25.4x22x12.5 mm C12.5 Output 5 V 25.4x22x10 mm C10 3.3 V **HCMOS**

ORDERING GUIDE: MV295 - <u>C 5 F - 12V - HCMOS - C12.5 - 10.0 MHz</u> Availability of certain 5×10⁻⁸ 2×10⁻⁸ 1×10⁻⁸ 5x10⁻⁹ stability vs. operating temperature range # +I (for 10 MHz, 12 V) 5 50 20 10 0...+55°C Α Α Α C -10...+60°C Α Α Α -20...+70°C Α Α Α C

ΕX -40...+85°C Α C NA A – available, NA – not available, C – consult factory For other temperature ranges see designation at the

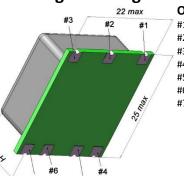
end of Data Sheet.

-40...+70°C

Standard frequencies, MHz Availability of certain 16.384 10.0 15.36 30.72 aging values for certain 12.8 20.0 25.0 frequencies ±2x10⁻⁷/ year Α Α С G C C ±1x10⁻⁷/ year Α Α Α F Α C ±5x10-8/ year Α NA Α NA NA E ±2x10-8/ year Α C NA NA NA NA NA

Phase noise, dBc/Hz, for 10MHz, 5V and 12V	•
1 Hz	<-90
10 Hz	<-120
100 Hz	<-135
1000 Hz	<-145
10000 Hz	<-150

Package drawings:



#5

Outputs designations

#1 – Us (Power supply):

C

Α

#2 - Uref (Reference Voltage output);

C

- #3 Uin (Control Voltage input);
- #4 Rf output
- #5 Oven alarm;
- #6 NC;
- #7 GND (Ground).

Short term stability (Allan deviation) per 1 sec, for 10 MHz	<1x10 ⁻¹¹
Frequency stability vs. load changes (±5%)	<±3x10 ⁻⁹
Frequency stability vs. power supply changes (±5%)	<±3x10 ⁻⁹
Warm-up time within accuracy of <±1x10⁻¹@ 25°C	<3 min

10-500 Hz
5 g
75 g
3±1 ms
98%
-55+85 °C

Power supply (Us)	12V±5%	5V±5%	3.3V±5%				
Steady state current consumption @ +25℃	<90 mA	<215 mA	<320 mA				
Peak current consumption during warm- up (for "D" temp. range)	<220 mA	<530 mA	<800 mA				
Frequency pulling range (for 10 MHz)	>±4.0x10 ⁻⁷						
Control voltage range (Uin)	05 V	V 04.5V 02.8					
Reference voltage (Uref)	+5 V	+4.5 V	+2.8 V				
Output	HCMOS						
	12V	>4.5 / <0.5V					
Level	5V	>4.0 / <	<0.5V				
	3.3V	>2.4 / <0.4V					
Load	10kOhm/15pF						
Rise/Fall time	<6 ns						
Harmonics	-						

Additional notes:

- · Please consult factory for daily aging values. Normally typical correspondence of daily to aging per year is as following:
- $\pm 1x10^{-7}$ /year $\pm 1x10^{-9}$ /day; $\pm 5x10^{-8}$ /year $\pm 5x10^{-10}$ /day; $\pm 3x10^{-8}$ /year $\pm 3x10^{-10}$ /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), °C:

Ī	Α	В	С	D	Е	F	G	Н	J	K	L	М	N	Р	Q	R	S	T	U	W	Х
	-60	-55	-50	-45	-40	-30	-20	-10	0	+10	+30	+40	+45	+50	+55	+60	+65	+70	+75	+80	+85

