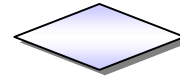


# MVF & MVH Series

## DIP-14/DIP-8 VCXO



**Microcom  
Devices Ltd.**

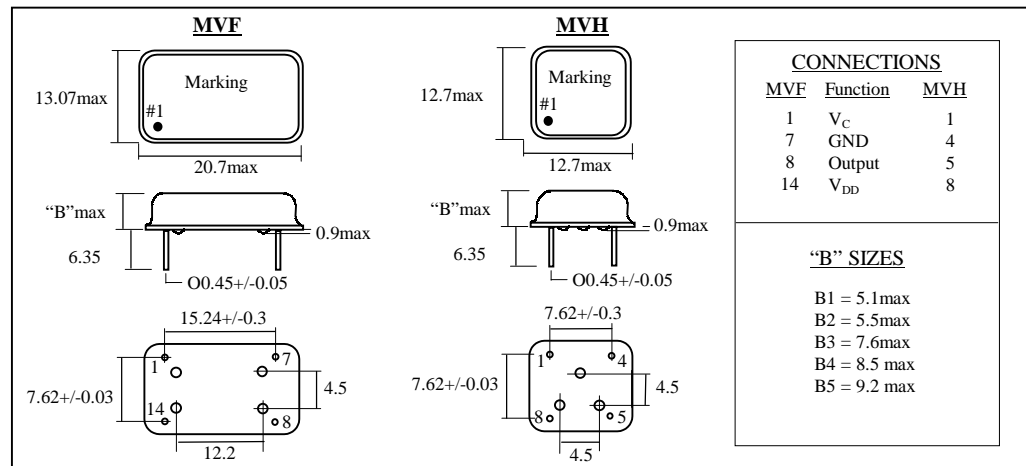
- FEATURES**
- . Hermetically Sealed Metal / DIP Thru-Hole
  - . Wide Frequency / Pullability / Temp. Range
  - . 5V and 3.3V/ Low Power

**SPECIFICATIONS** (subject to change w/o notice)

Parameters	5V	3.3V
Frequency Range	1MHz ~ 100MHz (55MHz Model H)	1MHz ~ 100MHz (55MHz Model H)
Operating Temp Range	0°C ~ +50°C to -40°C ~ +85°C	0°C ~ +50°C to -40°C ~ +85°C
Storage Temp	-40°C ~ +85°C	-40°C ~ +85°C
Supply Voltage	V <sub>DD</sub> : 5V ± 5%	V <sub>DD</sub> : 3.3V ± 5%
Supply Current (max)	20mA @ 20MHz ~ 50mA @ 100MHz	15mA @ 20MHz ~ 45mA @ 100MHz
Freq. Stability (max)	±10/20/30/50/100ppm (inclusive of all variations)	±10/20/30/50/100ppm (inclusive of all variations)
Freq. Pullability (min)	±20/30/50/100/150/200ppm	±20/30/50/100/150/200ppm
Linearity	±5 ~ 20%	±5 ~ 20%
Control Voltage V <sub>C</sub>	2.5V ± 2.0/2.5V	1.5/1.65V ± 1.5V
Output Load	10 TTL/15pF	15pF
Duty Cycle	40/60% ~ 45/55%	40/60% ~ 45/55%
Output Level	V <sub>L</sub> = 0.4V/10% V <sub>DD</sub> max, TTL/HCMOS load V <sub>H</sub> = 2.4V/90% V <sub>DD</sub> min, TTL/HCMOS load	V <sub>L</sub> = 10% V <sub>DD</sub> max, HCMOS load V <sub>H</sub> = 90% V <sub>DD</sub> min, HCMOS load
Rise/Fall Time	5nsec max	5nsec max
Start-up Time	10 msec max	10 msec max
Period Jitter RMS	10psec typical @ 50MHz	10ps typical @ 50MHz

**OUTLINE**

(mm) not to scale



**PART NUMBERING**

Model	Supply	Frequency	Stability	Pullability	Temperature	Duty Cycle	Output
MVF	5: 5V	MHz	6: 100ppm	V: 200ppm	Blank: -10C ~ +60C	Blank: 40/60%	Blank: CMOS/TTL
MVH	3.3: 3.3V	Value	5: 50ppm	U: 150ppm	M: -20C ~ +70C	T: 45/55%	H: HCMOS
			3: 30ppm	D: 100ppm	N: -30C ~ +75C		
			2: 20ppm	C: 50ppm	I: -40C ~ +85C		
			1: 10ppm	B: 30ppm			
				A: 20ppm			
<b>Example: MVH5-16.384-5D</b>		<b>Please Consult Microcom Devices Ltd. for Custom Specifications</b>					