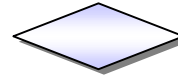


# OCXO Series MOCVG & MOCVL

## Oven Controlled, Voltage Tuned Crystal Oscillators



**Microcom  
Devices Ltd.**

### FEATURES

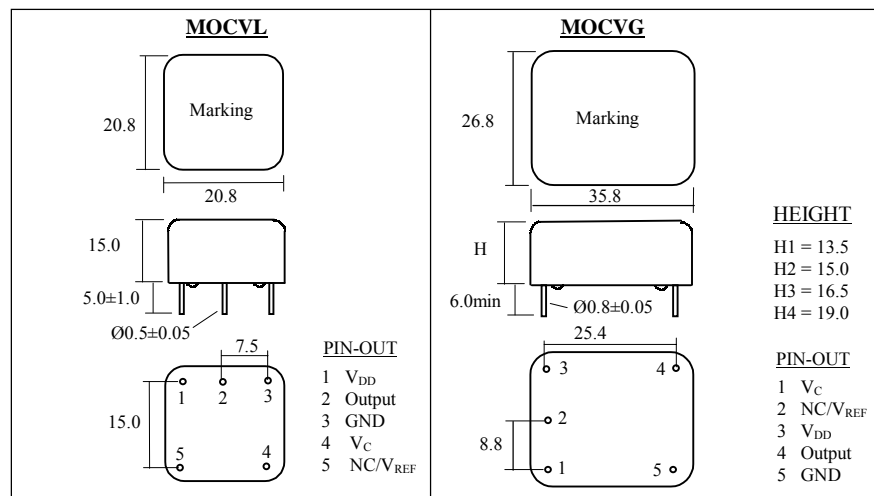
- . Hermetically Sealed Thru-Hole Packages
- . Very High Precision, Wide Freq/Temp Options
- . 12V, 5V & 3.3V, HCMOS/TTL/Sinewave

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

Parameters	Model G	Model L
Frequency Range	1MHz ~ 100MHz	5 MHz ~ 50MHz
Frequency Stability From 25°C Ref. (max)	±5, 10, 20, 30 & 50ppb (parts per billion) ±2ppb over supply or load variations ±0.5ppb/day after 30 days continuous operation ±0.1ppm aging max/1 <sup>st</sup> yr	±5, 10, 20, 30 & 50ppb (parts per billion) ±2ppb over supply or load variations ±0.5ppb/day after 30 days continuous operation ±0.1ppm aging max/1 <sup>st</sup> yr
Operating Temp.	0 ~ +50°C; -10 ~ +60°C; -20 ~ +70°C	0 ~ +50°C; -10 ~ +60°C; -20 ~ +70°C
Storage Temp.	-40°C ~ +100°C	-40°C ~ +100°C
Supply Voltage V <sub>DD</sub>	V <sub>DD</sub> : 12V, 5V & 3.3V ± 5%	V <sub>DD</sub> : 12V, 5V & 3.3V ± 5%
Power Supplies @ Current (max)	12V: 250mA start at up and 120mA after warm up 5V: 500mA at start up and 195mA after warm up 3.3V: 900mA at start up and 325mA after warm up	12V: 250mA start at up and 120mA after warm up 5V: 500mA at start up and 195mA after warm up 3.3V: 900mA at start up and 325mA after warm up
Warm Up (max)	<5min to within 0.1ppm nominal frequency	<5min to within 0.1ppm nominal frequency
Output Loading (max)	15pF HCMOS or Sinewave 0dbm into 50Ω	15pF HCMOS or Sinewave 0dbm into 50Ω
O/P Ref. Voltage V <sub>REF</sub>	4.5V for 12/5V V <sub>DD</sub> ; 3.0V for 3.3V V <sub>DD</sub>	4.5V for 12/5V V <sub>DD</sub> ; 3.0V for 3.3V V <sub>DD</sub>
Rise/Fall Time (max)	2.5nsec	2.5nsec
Control Voltage V <sub>C</sub>	2.25±2.25V/ V <sub>DD</sub> : 12/5V; 1.50±1.50V/ V <sub>DD</sub> : 3.3V	2.25±2.25V/ V <sub>DD</sub> : 12/5V; 1.50±1.50V/ V <sub>DD</sub> : 3.3V
Pullability	±0.5 ~ 2.0 ~ 5ppm, positive slope	±0.5 ~ 2.0 ~ 5ppm, positive slope
Pullability Linearity	±10% (5% available for ±0.5ppm pullability)	±10% (5% available for ±0.5ppm pullability)
Phase Noise	-145, -140, -130dBC/Hz @ 10KHz/1KHz/100Hz	-145, -140, -130dBC/Hz @ 10KHz/1KHz/100Hz

### OUTLINE

(mm) not to scale



### PART NUMBERING

Model	Supply	Frequency	Stability	Temperature Range	Output	Custom Inquires
MOCVG	12: 12V	MHz	±PPB	Blank: 0C ~ +50C	Blank: HCMOS/TTL	Clipped Sinewave
MOCVL	5: 5V	Value	Value	M: -10C ~ +60C	H: HCMOS	Negative Slope
	3.3: 3.3V			N: -20C ~ +70C	S: Sinewave	Manual Trim
<b>Example: MOCVG5-5.000-50NH</b>				<b>Please Contact Microcom Devices for Custom specifications</b>		