

MPS Series
SMD PECL Crystal Oscillators

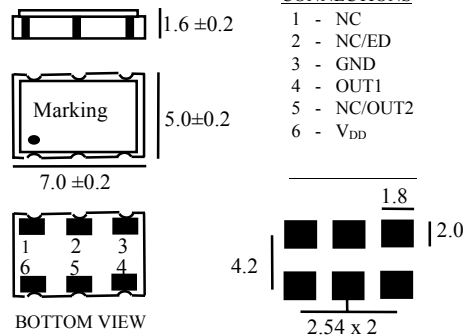
- FEATURES**
- 7 x 5 x 1.6mm SMD Ceramic Package
 - 5V & 3.3V PECL with Tri-State & Complementary Options
 - Low Jitter, Wide Frequency/Temperature Range

SPECIFICATIONS (subject to change w/o notice)

Parameters	Model MPS: 5V & 3.3V (V _{DD})
Frequency Range	19.440 ~ 622.080MHz
Operating Temp.	0°C ~ +70°C to -40°C ~ +85°C
Storage Temp.	-55°C ~ +125°C
Supply Voltage	5V ±5% @ 120mA max; 3.3V±5% @ 70mA max
Frequency Stability	±25 ~ 100ppm (includes 25°C tolerance & changes due to temperature, supply, load, vibrations, etc.)
Aging	±3ppm/year max
Output Load	50Ω max to V _{DD} - 2.0V or Thevenin equivalent
Output Logic Levels	V _{OL} = V _{DD} - 1.62V max V _{OH} = V _{DD} - 1.02V min
Duty Cycle	40/60% ~ 45/55%
Period Jitter RMS	3.5ps max @ 155.52MHz
Rise/Fall Time	2nsec max (20% to 80% waveform)
Start-up Time	10 msec max
Tri-State E/D I/P	NC or V _{OH} enables O/P; V _{OL} disables O/P (high impedance)

OUTLINE

(mm) not to scale



PART NUMBERING

Model	Supply	Frequency	Stability	Temperature	Duty Cycle	O/P Configuration	Others
MPS	5: 5V 3.3: 3.3V	MHz Value	±PPM Value	Blank: 0C ~ +70C M: -20C ~ +70C N: -30C ~ +75C I: -40C ~ +85C	Blank: 40/60 T: 45/55	Blank: Out1 only Y: Out1 & Out2 Z1: Out1 & E/D Z2: Out1, Out2 & E/D	Custom Inquiries
Example: MPS5-155.52-100C				Please Consult Microcom Devices Ltd. for Custom Specifications			