

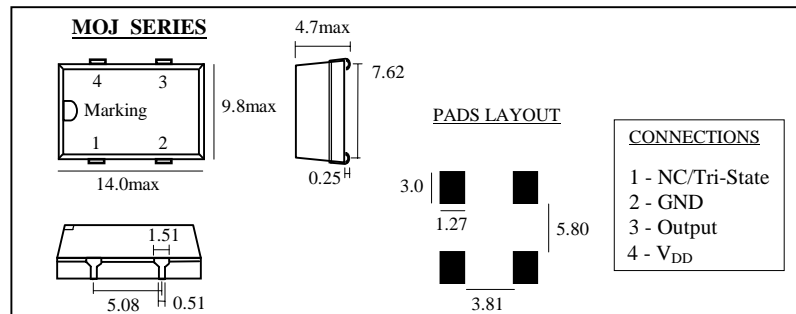
MOJ Series
Plastic Surface Mount Crystal Oscillators

- FEATURES**
- . Plastic SMD, 14.0 x 9.8 x 4.7mm
 - . 5V & 3.3V Options
 - . HCMOS/TTL Compatibility
 - . Wide Frequency & Temperature. Range
 - . Low Power & Tri-State

SPECIFICATIONS (subject to change w/o notice)

Parameters	5V	3.3V
Frequency Range	1.00MHz ~ 125.000MHz	1.000MHz ~ 110.000MHz
Operating Temp.	0°C ~ +70°C to -40°C ~ +85°C	0°C ~ +70°C to -40°C ~ +85°C
Storage Temp.	-55°C ~ +125°C	-55°C ~ +125°C
Supply Voltage	V _{DD} : 5V ± 10%	V _{DD} : 3.3V ± 10%
Supply Current (max)	20mA over 1MHz ~ 20MHz 30mA over 21MHz ~ 40MHz 40mA over 41MHz ~ 80MHz 50mA over 81MHz ~ 125MHz	15mA over 1MHz ~ 20MHz 25mA over 21MHz ~ 40MHz 35mA over 41MHz ~ 80MHz 40mA over 81MHz ~ 110MHz
Frequency Stability	±25 ~ 100ppm (includes 25°C tolerance & changes due to temperature, supply, load, vibrations, etc.)	±25 ~ 100ppm (includes 25°C tolerance & changes due to temperature, supply, load, vibrations, etc.)
Aging (max) @ 25°C	±5ppm/year	±5ppm/year
Output Load (max)	10 TTL/15pF HCMOS	15pF HCMOS
Output Level	V _{OL} = 0.4V/10% of V _{DD} max, TTL/HCMOS load V _{OH} = 2.4V/ 90% of V _{DD} min, TTL/HCMOS load	V _{OL} = 10% of V _{DD} max, HCMOS load V _{OH} = 90% of V _{DD} min, HCMOS load
Duty Cycle	40/60% ~ 45/55%	40/60% ~ 45/55%
Rise/Fall Time (max)	2ns @ 100MHZ ~10ns @ 1MHz	2ns @ 100MHZ ~10ns @ 1MHz
Start-up Time	10 msec max	10 msec max
Tri-State (100nsec max E/D Time) I/P	NC or V _{IH} of 2.0V or higher enables O/P V _{IL} of 0.8V or lower disables O/P, high impedance	NC or V _{IH} of 2.0V or higher enables O/P V _{IL} of 0.8V or lower disables O/P, high impedance
Period Jitter (max)	±100psec absolute; ±25psec one-sigma	±100psec absolute; ±25psec one-sigma

OUTLINE
(mm) not to scale



PART NUMBERING

Model	Supply	Frequency	Stability	Temperature	Duty Cycle	Output	Tri-State	Packaging
MOJ	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: CMOS/TTL H: HCMOS	Blank: NC Z: Tri-State	Blank: Bulk R: Tape & Reel
Example: MOJ5-16.000-50I			Please Consult Microcom Devices Ltd. for Custom Specifications					