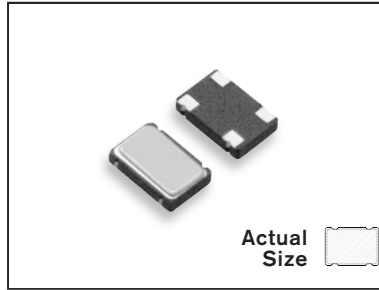


# EXTREME ENVIRONMENT

## SMD HIGH-PRESSURE TOLERANT CRYSTAL OSCILLATORS

### FMOPC5S SERIES

## High Pressure Tolerant Clock Crystal Oscillator



- Pressure Tolerant to 7000 PSI
- 1.00 MHz to 50.00 MHz
- 5 x 7 mm SMD
- -50°C to +100°C
- +1.8 to +3.3V

### SPECIFICATIONS

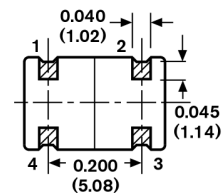
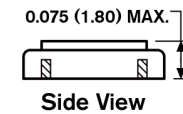
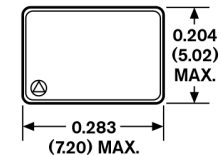


#### Pressure Tolerant to 480 Bar | 7000 PSI

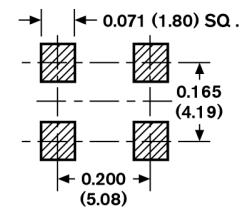
Parameter	Specification
Frequency Range	1.00 to 50.00 MHz
Frequency Stability over Temperature	±50 ppm, -40°C to +85°C ±100 ppm, -50°C to +100°C
Operating Temperature	-50°C to +100°C
Storage Temperature	-55°C to +125°C
Supply Voltage (Vcc ±5%)	+1.8, +2.5, or +3.3 Vcc
Logic	CMOS
Symmetry	45/55%
Rise & Fall Time	5 ns max
Start-up Time	2 ms max
Tri-State Control:	
Output Disable "0" Level	0.3 Vdc (max)
Output Enable "1" Level or Open	0.7 Vdc (min)
Supply Current	15 mA @ 3.3V max 10 mA @ 2.5V max 7 mA @ 1.8V max
Absolute Clock Period Jitter	40 psec max
RMS Phase Jitter (Integrated 12 KHz to 20 MHz)	1 psec max
Aging (at 25°C 1st. year)	±3 ppm max
Hi-Rel Screening / Testing	Available

All specifications subject to change without notice.

#### CERAMIC SMD



#### Bottom View



#### Recommended Land Pattern

Dimensions: mm

#### SHOCK & VIBRATION

Shock: 500g, 0.5 msec, half sine, 3-axis  
Vibration: 10g, 20 Hz to 2 kHz Random  
(note: other profiles available, please inquire)

#### APPLICATIONS

- **Commercial** - In/Off-Shore Surveying, Search and Salvage
- **Defense** - Port and Harbor Security, Ship Infrastructure and Inspection, Surveillance
- **Scientific** - Oceanography, Exploration, Research

#### STANDARD MARKING

XXX.XXXM  
XXXXXXX  
• FMI YYWW

XXX.XXXM FREQUENCY in MHz  
XXXXXXX Part Number  
Pin 1 Symbol, FMI, Date Code

#### PIN FUNCTION TABLE

Pin	Function	Pin	Function
1	Output	2	Case Ground
3	Output Enable	4	Supply Voltage (Vdd)

PLEASE CONTACT US FOR PART NUMBERS, HOW TO ORDER,

ADDITIONAL PRODUCT SPECIFICATIONS & OR WITH YOUR CUSTOM REQUIREMENTS

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