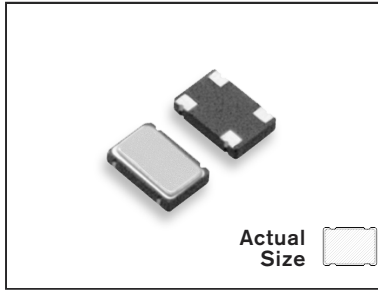


EXTREME ENVIRONMENT

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 +125°C
- +1.8 to +3.3V

SPECIFICATIONS

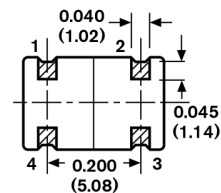
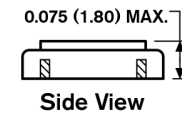
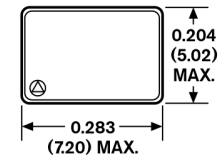


Pressure Tolerant to 480 Bar | 7000 PSI

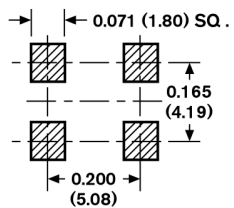
| Parameter | Specification |
|--|---|
| Frequency Range | 1.00 to 50.00 MHz |
| Frequency Stability over Temperature | ±50 ppm, -40°C to +85°C ±100 ppm, -50°C to +125°C |
| Operating Temperature | -50°C to +125°C |
| Storage Temperature | -55°C to +125°C |
| Supply Voltage (Vcc ±5%) | +1.8, +2.5, or +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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