EXTREME ENVIRONMENT

SMD HIGH-TEMPERATURE PRECISION CRYSTAL OSCILLATORS

FMOCHT3SPseries

Extreme Temperature Precision Crystal Oscillators

CERAMIC SMD 5x3.2



- Best-In-Class Accuracy
- 20 kHz to 80 MHz
- +1.6 Volts To +5 Volts
- High-Shock & Vibration
- Lowest Power Consumption
- Extended Operating Life

SPECIFICATIONS

Parameter	Specification
Faidilietei	Specification
Frequency Range*	20.00 kHz to 80.00 MHz
Operating Temperature Range	-100°C to +210°C, Customer Specified
Overall Frequency Tolerance vs. Temperature	<i>typical</i> : ±40 ppm, ±50 ppm, ±75 ppm, and ±100 ppm
	example: ±40 ppm; -40°C to +175°C
Customer Specified & Temp Range Dependent	example: ±50 ppm; -40°C to +200°C
(please inquire, call the factory)	example: ±75 ppm; -55°C to +200°C
	example: ±100 ppm; -40°C to +210°C
Storage Temperature	-100°C to +220°C
Supply Voltage	+1.6V, +1.8V, 2.5V, 3.3V, 5V (all ± 10%)
	Inquire about lower voltage options
Supply Current	See table below (inquire on extreme low-power)
Rise and Fall Time	2~10 nsec depending on voltage, load & frequency
Start-up Time	10 ms max. < 5 ms typical
Output	CMOS
Output Enable Options	Enabled on Logic "1"
Screening / Testing Available	Standard HiTemp Screening or per MIL-PRF-55310
*note. For frequencies outside of the standard range, please contact us.	







Recomended Land Pattern



Dimensions: Inches (mm)

All specifications subject to change without notice.

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PLEASE CONTACT US FOR PART NUMBERS, HOW TO ORDER, ADDITIONAL PRODUCT SPECIFICATIONS & OR YOUR CUSTOM REQUIREMENTS

SUPPLY CURRENT (mA)

12 MHz

0.7

1

2.8

PIN FUNCTION TABLE

NC or Tri-state

Ground (Case)

Output

Function

Supply Voltage (Vcc)

20 MHz

0.7

1

3.5

30 MHz

0.8

1.3

4.8

40 MHz

1

1.6

5.5

Frequency

2 MHz

0.7

0.8

2.8

Pad

2

3

4



FMI continuously performs life test on

high temperature

Inquire about the life

test relevant to your

specific application.

products.

FREQUENCY MANAGEMENT | INTERNATIONAL 15302 Bolsa Chica Street Huntington Beach, CA 92649 ph (714) 373-8100 | fx (714) 373-8700

Established and Guaranteed Long-Term Operating Life at the Extreme High-Temperature

32.768 kHz

0.015

0.018

0.85

Operating Life is 1200 hours minimum at +200°C is our standard specification

Voltage +1.8V

+3.3V

+5.0V

1-714-373-8100 1-800-800-XTAL [9825] www.fmi-inc.com