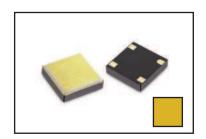
EXTREME ENVIRONMENT

SMD HIGH-TEMPERATURE PACKAGED QUARTZ CRYSTALS

FMXTHC7S SERIES

Extreme Temperature Packaged Crystals

CERAMIC SMD 7x7



- 3.6 MHz to 125 MHz
- 0°C to +200°C Standard
- High-Shock & Vibration
- Stability from ±70ppm
- Surface Mount Alternative to TO-5

SPECIFICATIONS

Parameter	Specification
Frequency Range	*3.60 MHz to 125.000 MHz
Operation Mode	See Operation Mode and ESR Table
Load Capacitance (CL)	18pf Std, 8 - 60pF and Series available
Frequency Tolerance	±50ppm @ 25°C, Custom Options available
Temperature Tolerance	±250ppm Std, ±70ppm to ±300ppm available
Operating Temperature	0 to 200°C Std, Custom Options available
Storage Temperature	-55°C to +240°C
Equivalent Series Resistance (ESR)	See Operation Mode and ESR Table
Shunt Capacitance (CO)	7pF max
Drive Level	50μW typical, 1mW max

±5ppm per year

per MIL-3098

All specifications subject to change without notice *Note: For frequencies less than 3.6 MHz use Crystal Oscillator in 5x7mm or 7x7mm packages.

Screening / Testing Available

Extremely Linear **Temperature Sensors** for High-Temperature Applications Now Available.

Aging @ 25°C

Material
Ceramic Base with Gold Pads
Gold Plated Kovar Walls & Lid

FMI continuously performs life test on high temperature products. Inquire about the life test relevant to your specific application.

Operation Mode and ESR Table

Freq (MHz)	Mode	MAX ESR
3.6 - 4.1	Fundamental	150
4.2 - 4.9	Fundamental	100
5.0 - 7.9	Fundamental	80
8.0 - 14.9	Fundamental	50
15.0 - 30.9	Fundamental	25
31.0 - 42.0	Fundamental	35
24.0 - 59.9	3rd Overtone	40
60.0 - 81.9	3rd Overtone	50
82.0 - 104.0	3rd Overtone	60
105.0 - 125.0	3rd Overtone	70

Pad Configuration

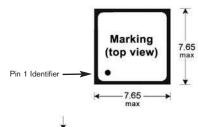
Pad	Function
1	Connect
2	No-Connect
3	Connect
4	No-Connect

Dimensions: mm

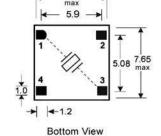


- RoHS
- Swept Quartz Option
- AT, IT, or SC Cut Crystals
- -150°C to +240°C Available

CERAMIC SMD







7.65

Issue 8 | 01112013

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

4-20

Land Pattern

