EXTREME ENVIRONMENT

SMD HIGH-TEMPERATURE PACKAGED CRYSTALS

FMXTHT05series

Extreme Temperature Packaged Crystals

T0-5 & T0-5 Low Profile

SPECIFICATIONS

Specification Parameters

Equivalent Series Resistance (ESR)

Frequency Range

Load Capacitance (CL)

Temperature Tolerance Operating Temperature

Storage Temperature

Drive Level

Shock

Aging @ +25°C

Vibration - Random

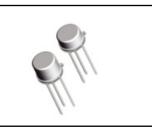
Shunt Capacitance (CO)

Screening / Testing Available

All specifications subject to change without notice.

Frequency Tolerance

Operation Mode



- 3.6 MHz to 125 MHz
- High-Shock & Vibration
- Standard Stability from ±70ppm
- Low Profile TO-5 Option Available
- Specify Custom Stabilities from -55°C to +220°C

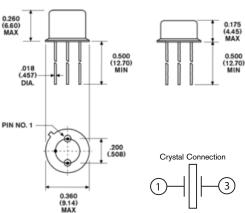


- High Pullability
- AT, IT, or SC Cut Crystals
- Extended Operating Temp. Range from -150°C to +300°C Available

TO-5 & TO-5 Low Profile

3 and 4 pin versions available

Swept Quartz Option



Pin Configuration

Pin	Function	
1	Connect	
3	Connect	
4	Case Ground	
Note: Pin 2 available upon request		

Dimensions: in / (mm)

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



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

Operation Mode and ESR Table

20g RMS 10 Hz to 2 kHz Random, Standard

Performance / Range

±250ppm Std, ±70ppm to ±300ppm available

0 to 200°C Std, Custom Options available

*3.60 MHz to 125.000 MHz

-55°C to +240°C Standard

50µW typical, 1mW max

1000g, 1 msec, Standard

±5ppm per year

per MIL-3098

*Note: For frequencies less than 3.6 MHz use Crystal Oscillator in 5x7mm or 7x7mm package.

7pF max

See Operation Mode and ESR Table

See Operation Mode and ESR Table

18pf Std, 8 - 60pF and Series available ±50ppm @ 25°C, Custom Options available

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 - 39.0	Fundamental	25
31.0 - 42.0	Fundamental	35
24.0 - 59.9	3rd Overtone	40
60.0 - 81.9	3rd Overtone	50
82.0 - 104.9	3rd Overtone	60
105.0 - 125.0	3rd Overtone	70

Material	
Base & Leads: Nickel Plated K	ovar*
Lid: Stainless Steel	
*note: leads w/ gold flash available	

related product: Extremely Linear

Temperature Sensors for High-Temperature Applications Now Available.

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