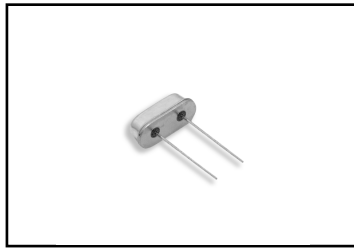


HIGH TEMPERATURE THROUGH-HOLE PACKAGED CRYSTALS

FMXTHTMB SERIES

High Temperature
Packaged Crystal Resonators

HC-49/US



- Designed and Manufactured for Reliable High Temperature Operation
- 3.5 MHz to 90 MHz
- Specify Custom Stabilities from 0°C to +200°C

SPECIFICATIONS

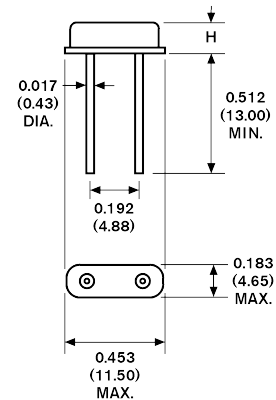


Specification Parameters	Performance / Range
Frequency Range	*3.50 MHz to 90.00 MHz
Operation Mode	See Operation Mode and ESR Table
Load Capacitance (CL)	18pf Std, 8 - 60pF and Series Mode available
Frequency Tolerance	±50ppm @ 25°C, Options ±15ppm to ±50ppm
Temperature Tolerance	±250ppm Std, ±100ppm to ±300ppm available
Operating Temperature	0 to 200°C Std, Custom Options available
Storage Temperature	-55°C to +240°C Standard
Equivalent Series Resistance (ESR)	See Operation Mode and ESR Table
Shunt Capacitance (CO)	7pF max
Drive Level	50µW typical, 1mW max
Aging @ +25°C	±5ppm per year
Screening / Testing Available	per MIL-3098

All specifications subject to change without notice.

*Note: Check with factory for lower frequencies.

Package Outline Drawing



Operation Mode and ESR Table

Freq (MHz)	Mode	MAX ESR
3.5 - 4.9	Fundamental	180
5.0 - 5.9	Fundamental	100
6.0 - 7.9	Fundamental	80
8.0 - 9.9	Fundamental	70
10.0 - 14.9	Fundamental	60
15.0 - 44.0	Fundamental	40
27.0 - 49.9	3rd Overtone	80
50.0 - 90.0	3rd Overtone	70

related product:

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

Pin Configuration

Pin	Function
1	Connect
2	Connect

STANDARD MARKING

XXXXXX
FMI YYWW

Line 1: Part Number
Line 2: FMI, Year & Month

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

Material
Base & Leads: Nickel Plated Copper
Lid: Steel

Dimensions: in / (mm)

Issue 1 | 03182014

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