

# FMXMC SERIES

High Frequency  
Micro Processor Crystals

## CYLINDRICAL



- Miniature Package
- Very Small Footprint
- Cost Effective
- High Shock Resistance

### SPECIFICATIONS

08 - issue 2 - 071508

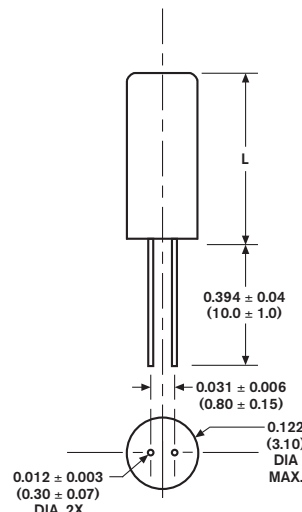


| Parameter                          | Specification                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                    | 3.579 - 9.999 MHz Type A (See Dimension Chart)<br>10.0 - 30.0 MHz Type B (See Dimension Chart)<br>27.0 - 70.0 MHz Type B (See Dimension Chart) |
| Operation Mode                     | See Operation Mode and ESR Table                                                                                                               |
| Load Capacitance (CL)              | 10 pF - Series resonance                                                                                                                       |
| Frequency Tolerance                | ±10 - 50 ppm @ 25°C                                                                                                                            |
| Temperature Tolerance              | ±50 ppm Std. (See Temp. Tol. for Options)                                                                                                      |
| Operating Temperature              | 0 to +70°C Std. (See Temp. Range for Options)                                                                                                  |
| Storage Temperature                | -55 to +125°C                                                                                                                                  |
| Equivalent Series Resistance (ESR) | See Operation Mode and ESR Table                                                                                                               |
| Parallel Capacitance (Co)          | 7 pF max.                                                                                                                                      |
| Drive Level                        | 10 - 1000 µW                                                                                                                                   |
| Aging @ 25°C                       | ±5 ppm per year max.                                                                                                                           |

All specifications subject to change without notice.

### OPERATION MODE AND ESR TABLE

| Frequency (MHz) | Mode         | Max. ESR (Ohms) |
|-----------------|--------------|-----------------|
| 3.579 - 3.699   | Fundamental  | 200             |
| 3.700 - 3.999   | Fundamental  | 180             |
| 4.000 - 4.099   | Fundamental  | 150             |
| 4.100 - 4.999   | Fundamental  | 120             |
| 5.000 - 6.999   | Fundamental  | 100             |
| 7.000 - 9.999   | Fundamental  | 80              |
| 10.000 - 11.999 | Fundamental  | 70              |
| 12.000 - 13.999 | Fundamental  | 60              |
| 14.000 - 15.999 | Fundamental  | 50              |
| 16.000 - 30.000 | Fundamental  | 40              |
| 27.000 - 60.000 | 3rd Overtone | 100             |



| Type | L              |
|------|----------------|
| A    | .398<br>(10.1) |
| B    | .354<br>(9.0)  |

**NOTE: Standard Specifications for product indicated in color**

Dimensions: Inches  
(mm)

### PART DESCRIPTION SYSTEM

**FMXM CA 1 18 H J A - XXX.XXXXXXM - TR**

