



# CERAMIC SEAM SEALED SMD CRYSTAL MODEL: FMB



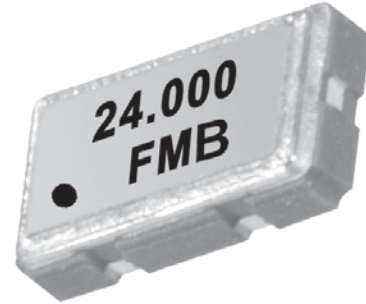
## FEATURES

- Fundamental to 40 MHz
- Seam Sealed
- Tape and Reel (2,000 pcs. STD)

## OPTIONS

- Tolerances to < 5 PPM
- Stabilities to < 3 PPM
- Temperatures to -40°C ~ +85°C

**Quote it!**



## • PART NUMBER SELECTION [Learn More](#) - Internet Required

| Part Number         | Model Number | Frequency Range (MHz) |
|---------------------|--------------|-----------------------|
| 411-Frequency-xxxxx | FMB          | 9.000 ~ 90.064583     |

## • STANDARD SPECIFICATIONS<sup>1</sup>

| PARAMETERS                                       | MAX (unless otherwise noted)           |
|--|--|
| Frequency Range                                  | 9.000 ~ 90.064583 MHz                  |
| Frequency Stability<br>Over Operating Temp Range | ±100 PPM <sup>2</sup>                  |
| Temperature Range                                |  |
| Operating (TOPR)                                 | -10°C ~ +60°C                          |
| Storage (TSTG)                                   | -40°C ~ +85°C                          |
| Shunt Capacitance (Co)                           | 7.0 pF                                 |
| Load Capacitance (CL)                            | 10 pF ~ Series<br>(Customer Specified) |
| Drive Level                                      | 0.1 mW                                 |
| Aging per year                                   | ±5 PPM                                 |

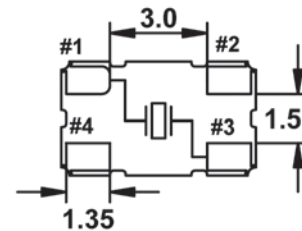
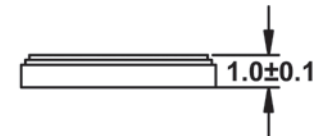
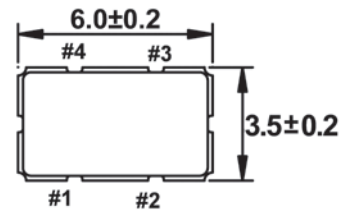
<sup>1</sup> Other tolerances, stabilities & operating temperature ranges available. Consult Fox Customer Service for specific requirements.

<sup>2</sup> Inclusive of tolerance at 25°C.

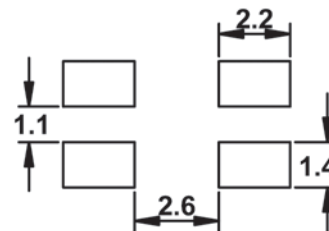
All specifications subject to change without notice. Rev. 5/1/04

| Frequency Range (MHz) | Operating Mode | Max ESR Ω |
|-----------------------|----------------|-----------|
| 9.000 ~ 12.000        | Fundamental    | 80        |
| 12.000+ ~ 16.000      | Fundamental    | 60        |
| 16.000+ ~ 40.000      | Fundamental    | 40        |
| 40.000+ ~ 90.064583   | 3rd OT         | 70        |

Learn more about:  
[Part Marking Identification](#)  
[Tape and Reel Specification](#)  
Internet required



## Recommended Solder Pad Layout



All dimensions are in millimeters.