

# Ceramic SMD Automotive Grade Crystal



**Model: FXA7050B Series**

**RoHS Compliant**

**Rev. 6/2/2009**

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## FEATURES

- Meets AEC-Q200 Requirements
- Fundamental to 48 MHz
- Temperatures to -40°C ~ +125°C
- Seam Seal
- Tape and Reel (1,000 pcs. STD)

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

| Part Number          | Model Number | Frequency Range (MHz) |
|----------------------|--------------|-----------------------|
| 825B-Frequency-xxxxx | FXA7050B     | 6.000 ~ 133.000 MHz   |

## • STANDARD SPECIFICATIONS

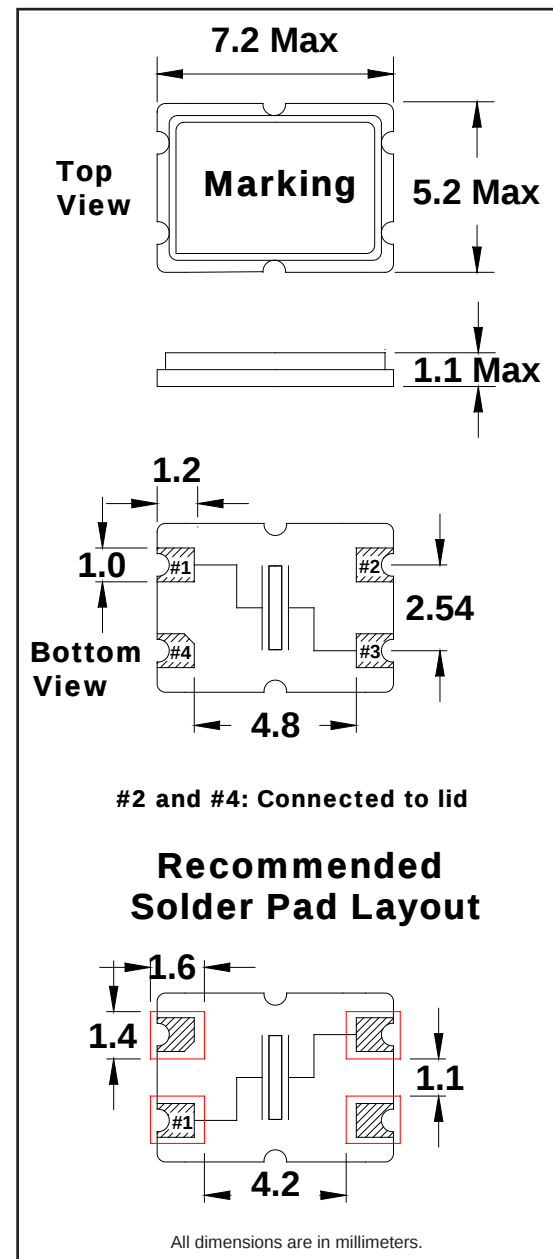
| PARAMETERS                       | MAX (unless otherwise noted)                 |
|----------------------------------|----------------------------------------------|
| Frequency                        | 6.000 ~ 133.000 MHz                          |
| Frequency Tolerance @ 25°C       | ±50 PPM <sup>1</sup>                         |
| Frequency Stability, ref @ 25°C  |                                              |
| -40 ~ +125°C                     | ±100 PPM <sup>1</sup>                        |
| -40 ~ +85°C                      | ±50 PPM <sup>1</sup><br>(Customer Specified) |
| Temperature Range                |                                              |
| Operating (TOPR)                 | -40°C ~ +125°C                               |
| Storage (TSTG)                   | -55°C ~ +150°C                               |
| Shunt Capacitance (Co)           | 7pF                                          |
| Load Capacitance (CL)            | 10pF~Series<br>(Customer Specified)          |
| Drive Level                      | 100μW                                        |
| Aging per year                   | ±3 PPM                                       |
| Maximum Soldering Temp / Time    | 260°C / 10 Seconds                           |
| Moisture Sensitivity Level (MSL) | 1                                            |
| Termination Finish               | Au                                           |
| Seal Method                      | Seam Seal                                    |

<sup>1</sup> Other tolerances and stabilities available. Contact Fox Technical Support for specific requirements.

| Frequency Range (MHz)  | Operating Mode     | Max ESR Ω |
|------------------------|--------------------|-----------|
| 6.000000 ~ 10.000000   | Fundamental        | 110       |
| 10.000001 ~ 12.000000  | Fundamental        | 60        |
| 12.000001 ~ 20.000000  | Fundamental        | 45        |
| 20.000001 ~ 48.000000  | Fundamental        | 30        |
| 40.000000 ~ 52.000000  | 3 <sup>RD</sup> OT | 80        |
| 52.000001 ~ 133.000000 | 3 <sup>RD</sup> OT | 60        |

Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

The above specifications, having been carefully prepared and checked, are believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies.



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| • TAPE SPECIFICATIONS (millimeters) |      |     |     |     |      |              |
|-------------------------------------|------|-----|-----|-----|------|--------------|
| MODEL                               | A    | B   | C   | D   | E    | STD Reel QTY |
| FXA7050B                            | Ø1.5 | 4.0 | 8.0 | 7.5 | 16.0 | 1,000        |

| • REEL SPECIFICATIONS (millimeters) |     |     |     |       |      |      |
|-------------------------------------|-----|-----|-----|-------|------|------|
| MODEL                               | G   | H   | I   | J     | K    | L    |
| FXA7050B                            | 2.0 | Ø13 | Ø21 | Ø62.0 | Ø180 | 16.2 |

