

Ceramic SMD Automotive Grade Crystal

Model: FXA7050B Series

RoHS Compliant

Rev. 5/28/2010

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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 ~ 48.000 MHz |

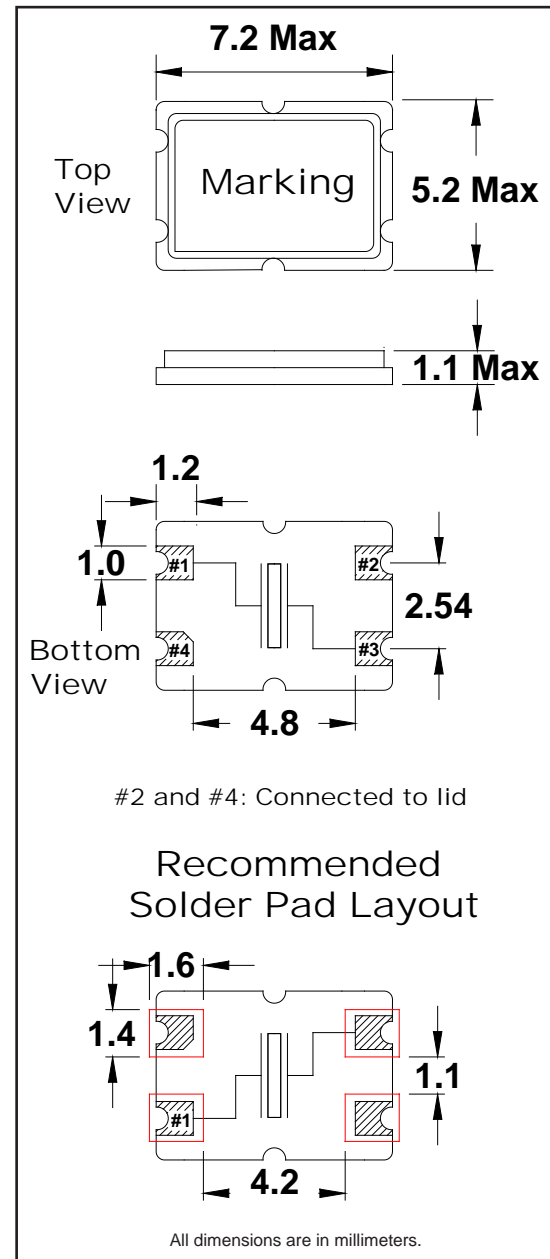
| • STANDARD SPECIFICATIONS | |
|----------------------------------|---|
| PARAMETERS | MAX (unless otherwise noted) |
| Frequency | 6.000 ~ 48.000 MHz |
| Frequency Tolerance @ 25°C | ±50 PPM ¹ |
| Frequency Stability, ref @ 25°C | ±100 PPM ¹ ±50 PPM ¹ (Customer Specified) |
| -40 ~ +125°C | |
| -40 ~ +85°C | |
| Temperature Range | -40°C ~ +125°C -55°C ~ +150°C |
| Operating (TOPR) | |
| Storage (TSTG) | |
| Shunt Capacitance (Co) | 7pF |
| Load Capacitance (CL) | 10pF~Series (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 |

¹Other 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 | 50 |
| 20.000001 ~ 48.000000 | Fundamental | 40 |

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 | F | STD Reel QTY |
| FXA7050B | ∅1.5 | 4.0 | 8.0 | 7.5 | 16.0 | 2.0 | 1,000 |

| • REEL SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|-----|-----|-----|-------|------|------|-----|
| MODEL | G | H | I | J | K | L | M |
| FXA7050B | 2.0 | ∅13 | ∅21 | ∅62.0 | ∅180 | 16.2 | 1.6 |

