Ceramic SMD Automotive Grade Crystal

Model: FXA7050B Series **RoHS Compliant** **Rev. 5/28/2010**

http://www.foxonline.com/need_a_sample.htm

Need a Sample®

FEATURES

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

• PART NUMBER

Part Number	Model Number	Frequency Range (MHz)
825B-Frequency-xxxxx	FXA7050B	6.000 ~ 48.000 MHz

• STANDARD SPECIFICATIONS

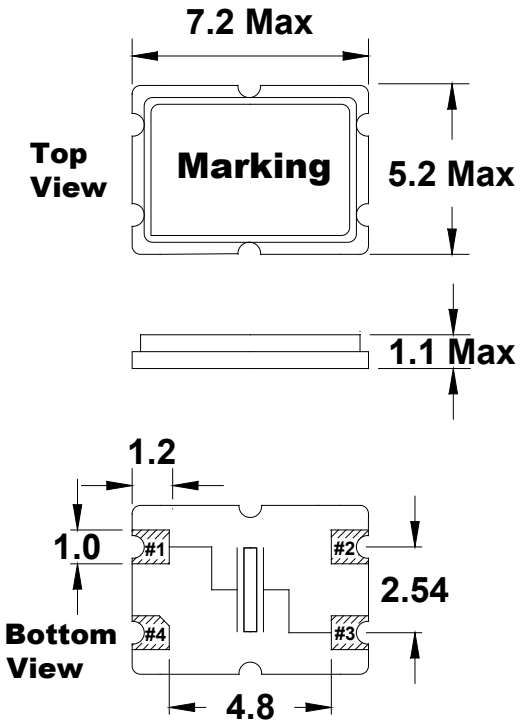
PARAMETERS	MAX (unless otherwise noted)
Frequency	6.000 ~ 48.000 MHz
Frequency Tolerance @ 25ºC	±50 PPM[1]
Frequency Stability, ref @ 25ºC -40 ~ +125ºC -40 ~ +85ºC	 ±100 PPM[1] ±50 PPM[1] (Customer Specified)
Temperature Range Operating (TOPR) Storage (TSTG)	 -40ºC ~ +125ºC -55ºC ~ +150ºC
Shunt Capacitance (Co)	7pF
Load Capacitance (CL)	10pF~Series (Customer Specified)
Drive Level	100µW
Aging per year	±3 PPM
Maximum Soldering Temp / Time	260ºC / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au
Seal Method	Seam Seal

[1] 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	50
20.000001 ~ 48.000000	Fundamental	40

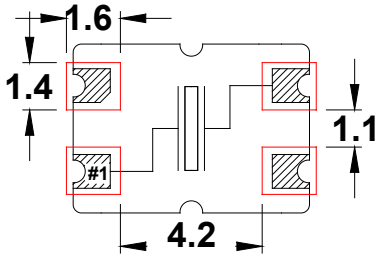
Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

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. All specifications subject to change without notice.



#2 and #4: Connected to lid

Recommended Solder Pad Layout



All dimensions are in millimeters.

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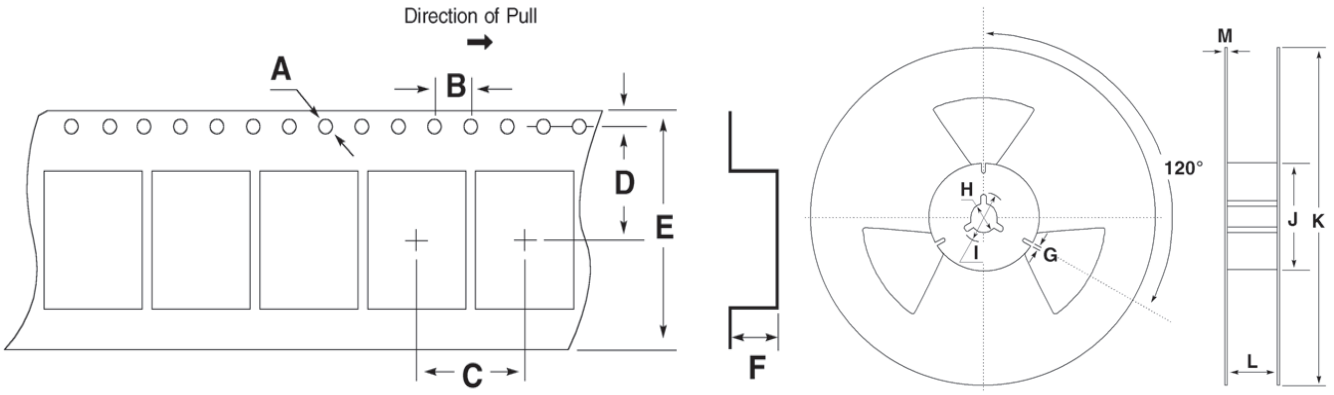
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• TAPE SPECIFICATIONS (millimeters)

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



PRODUCT USE

Performance specifications and the operating parameters of the described products are determined in the independent state and are not guaranteed to perform the same way when installed in customer products.
FOX products are not intended for use in life support systems or similar devices where the failure or malfunction of a FOX product can be reasonably expected to significantly affect the health or safety of users. Anyone using a FOX product in such a manner does so at their own risk, absent an express, written agreement by FOX.