5.0mm x 3.2mm SMD Crystal

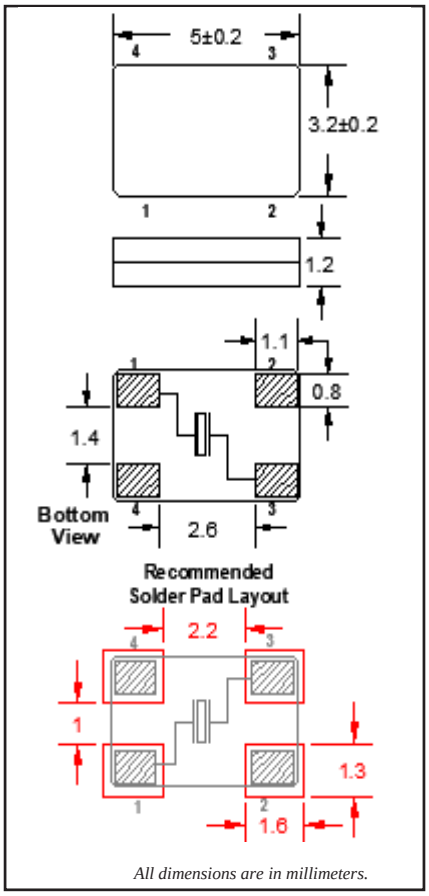
C5BQ
(former FQ5032B)
DATASHEET

- Tolerances down to 20 PPM
- Stabilities down to 10 PPM

• C5BQ STANDARD SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	8.000 ~ 48.000 MHz
Frequency Tolerance @ 25ºC	(See options on page 2)
Frequency Stability, ref @ 25ºC Over Operating Temp Range	(See options below)
Temperature Range Operating (TOPR) Storage (TSTG)	(See options below) -40ºC ~ +85ºC
Shunt Capacitance (Co)	5 pF
Load Capacitance (CL)	(See options on page 2)
Drive Level	0.5 mW
Aging per year	±5 PPM
Termination Finish	Ag
Seal Method	Resin
Lead (Pb) Free	Yes
RoHS Compliant	Yes

Frequency Range (MHz)	Operating Mode	Max ESR Ω
8.000000 ~ 11.999999	Fundamental	100
12.000000 ~ 16.000	Fundamental	80
16.000001 ~ 48.000	Fundamental	50



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.

• Available Operating Temperatures and Stabilities*

Stability Temperature	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM
0 ~+70ºC	O	O	O	O	O	O
-20 ~+70ºC	O	O	O	O	O	O
-40 ~+85ºC	X	X	X	X	O	O

Key: O=Available, X=Not Available, Δ=Consult Fox Technical Support
*Does not imply a stocked part.

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Title / Description: C5BQ SERIES STANDARD SPECIFICATIONS		
Drawing Number: 101146		**Size: A**
Part Number:		**Cage:** 61429
Draftsperson: BEC	**Approved: MAJ**	**Revision Date:** 04/16/2019

5.0mm x 3.2mm SMD Crystal

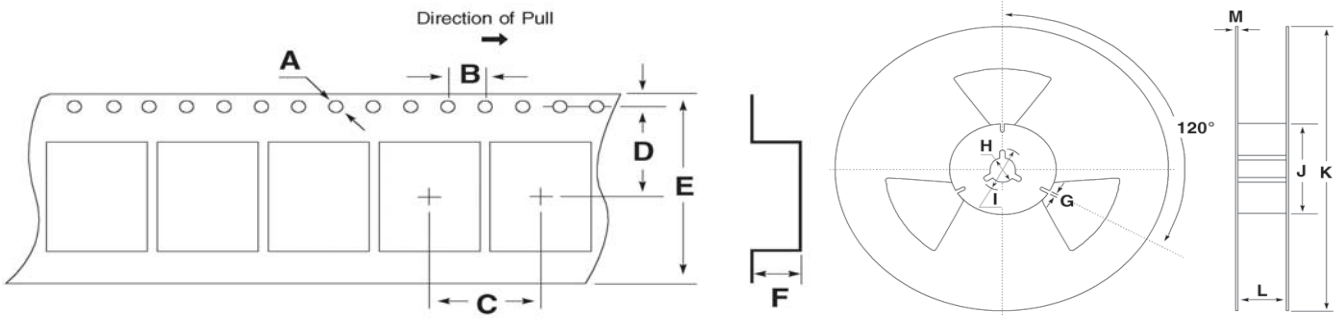
C5BQ
(former FQ5032B)
DATASHEET

• TAPE SPECIFICATIONS (millimeters)

A	B	C	D	E	F	STD Reel QTY
∅1.5	4.0	8.0	5.5	12.0	1.5	-T1 = 1,000

• REEL SPECIFICATIONS (millimeters)

G	H	I	J	K	L	M
2.0	∅13	∅21	∅62	∅180	13.5	2.0



Available Options & Part Identification for SMD Crystal C5BQ[1]

F C5BQ C C M C 25.0

F	C5BQ	C	C	M	C	25.0
FOX	**Model Number**	**Tolerance** B=50ppm **C=30ppm** D=25ppm E=20ppm	**Stability** B=50ppm **C=30ppm** D=25ppm E=20ppm F=15ppm H=10ppm	**Load Capacitance[2]** V=7pF D=8pF E=10pF G=12pF K=16pF **M=20pF**	**Operating Temperature** **C=0 to +70C** F=-20 to +70C M=-40 to +85C	**Frequency (MHz)**

[1] *Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.*
[2] *Listed load capacitances represent the most commonly used. Other load capacitances are available. Contact Fox Technical Support for assistance*

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