



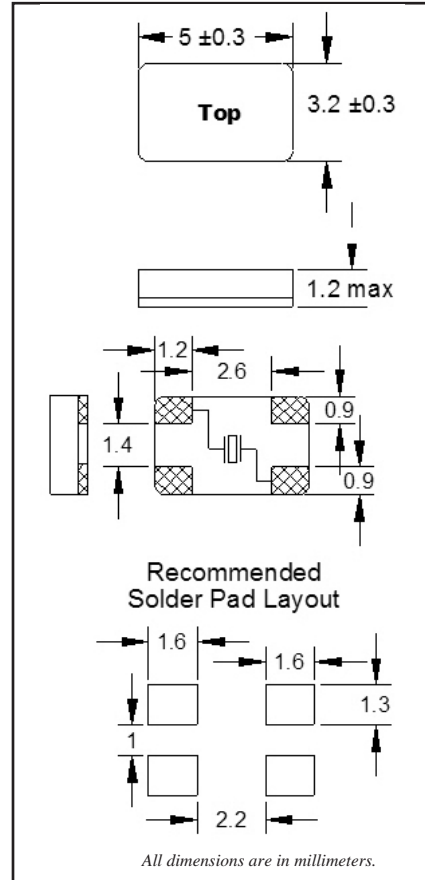
5.0mm x 3.2mm SMD Crystal

C5BQ
(former FQ5032B)
DATASHEET

- Tolerances down to 20 PPM
- Stabilities down to 20 PPM
- Operating Temperature Ranges up to -40°C ~ +85°C

• C5BQ STANDARD SPECIFICATIONS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	8.000 ~ 60.000 MHz
Frequency Tolerance @ 25°C	(See options on page 2)
Frequency Stability, ref @ 25°C Over Operating Temp Range	(See options below)
Temperature Range	
Operating (TOPR)	(See options below)
Storage (TSTG)	-40°C ~ +85°C
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	Au
Seam 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
48.000001 ~ 60.000	3rd OT	100



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	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM
0 ~+70°C	Δ	○	○	○	○
-20 ~+70°C	Δ	○	○	○	○
-40 ~+85°C	X	X	○	○	○

Key: O=Available, X=Not Available, Δ=Consult Fox Technical Support

*Does not imply a stocked part.

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	Drawing Number: 101146		Size: A	
	Part Number:		Cage: 61429	
	Draftsperson: CMR	Approved: RB	Revision Date: 2/28/2017	



5.0mm x 3.2mm SMD Crystal

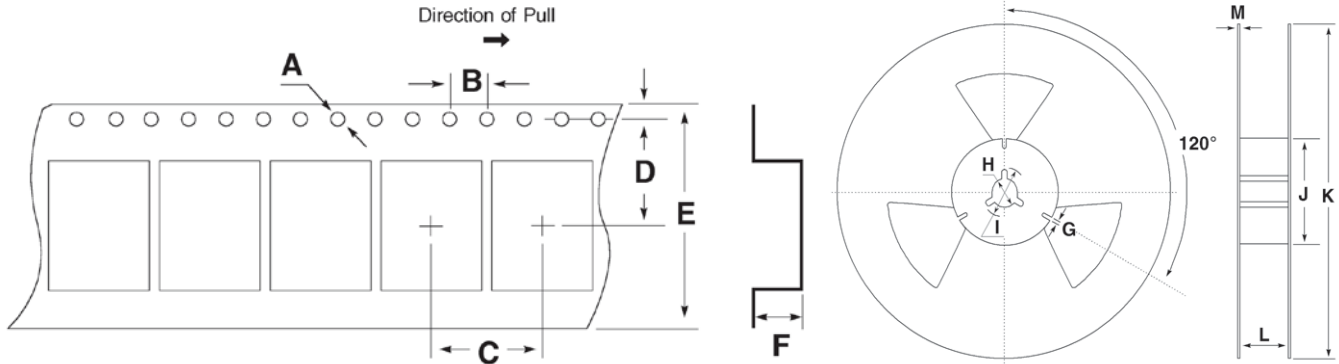
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• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
C5BQ	∅1.5	4.0	8.0	5.5	12.0	1.5	1,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
C5BQ	2.0	∅13	∅21	∅62	∅180	13.5	2.0



Available Options & Part Identification for SMD Crystal C5BQ*						
F C5BQ C C M C 25.000						
F	C5BQ	C	C	M	C	25.000
FOX	Model Number	Tolerance B=50ppm C=30ppm D=25ppm E=20ppm	Stability B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm**	Load Capacitance A=Series V=7pF D=8pF E=10pF G=12pF J=15pF K=16pF L=18pF M=20pF	Operating Temperature C=0 to +70C F=-20 to +70C M=-40 to +85C	Frequency (MHz)

*Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

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• C5BQ (Former FQ5032B) Standard Crystals					
Part Number	Frequency	Tolerance	Stability	Temp Range	CL
FQ5032B-10.000	10.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ5032B-12.000	12.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ5032B-16.000	16.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ5032B-20.000	20.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ5032B-24.000	24.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ5032B-25.000	25.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF
FQ5032BR-10.000	10.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FQ5032BR-12.000	12.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FQ5032BR-16.000	16.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FQ5032BR-20.000	20.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FQ5032BR-24.000	24.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FQ5032BR-25.000	25.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF



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