



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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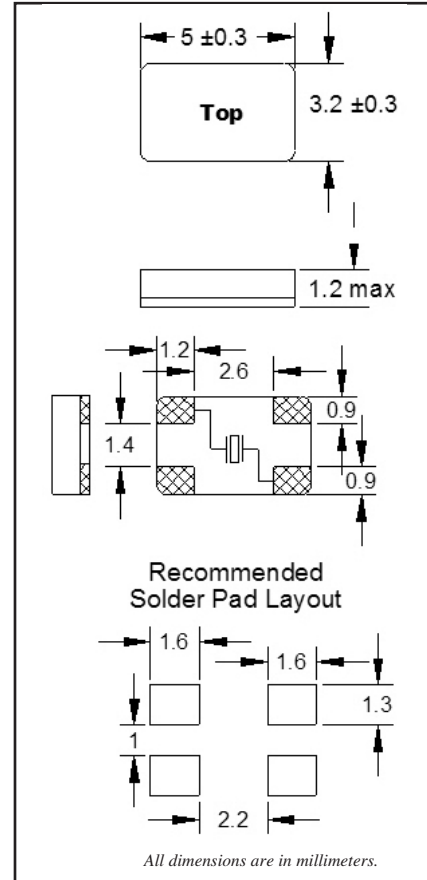
5.0mm x 3.2mm SMD Crystal

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.

<p>© Copyright 2017 Fox Electronics. All rights reserved</p>	Title / Description: C5BQ SERIES STANDARD SPECIFICATIONS			
	Drawing Number: 101146		Size: A	
	Part Number:		Cage: 61429	
	Draftsperson: CMR	Approved: RB	Revision Date: 2/28/2017	

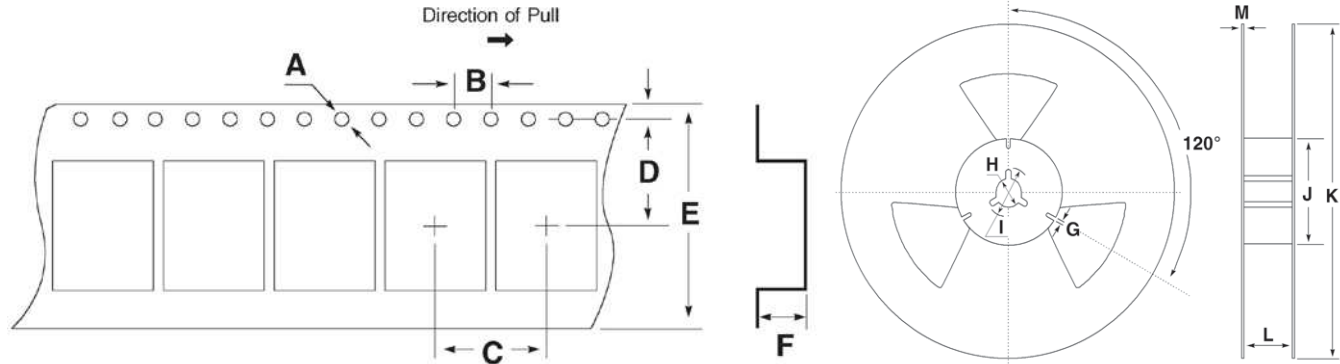


5.0mm x 3.2mm SMD Crystal

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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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5.0mm x 3.2mm SMD Crystal

C5BQ

(former FQ5032B)
DATASHEET

• 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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