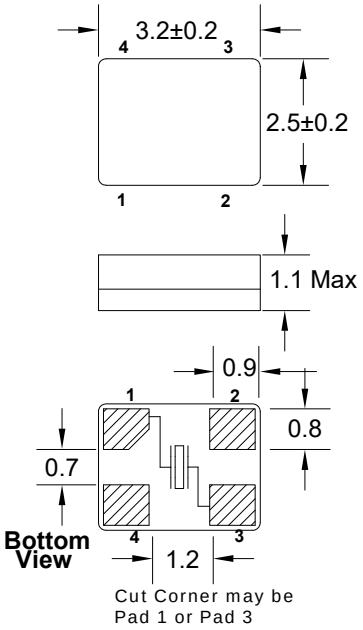
3.2mm x 2.5mm SMD Crystal

C3BQ
(former FQ3225B)
DATASHEET

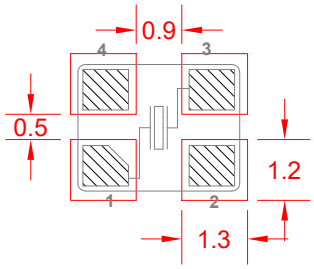
- Tolerances down to 20 PPM
- Stabilities down to 10 PPM

• STANDARD SPECIFICATIONS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	12.000 ~ 50.000 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 on page 2) -55ºC ~ +125ºC
Shunt Capacitance (Co)	3 pF
Load Capacitance (CL)	(See options on page 2)
Drive Level	0.1 mW
Aging per year	±5 PPM
Maximum Soldering Temp / Time	260ºC / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Ag
Seal Method	Resin
Lead (Pb) Free	YES
RoHS / REACH Compliant	YES



Recommended Solder Pad Layout



Frequency Range (MHz)	Operating Mode	Max ESR Ω
12.000 ~ 15.999999	Fundamental	120
16.000 ~ 20.000	Fundamental	100
20.000001 ~ 25.000	Fundamental	80
25.000001 ~ 30.000	Fundamental	60
30.000001 ~ 50.000	Fundamental	50

• Available Operating Temperatures and Stabilities*

Temperature/Stability	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM
-10 ~+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: C3BQ STANDARD SPECIFICATIONS		
Drawing Number: 100658		**Size:** A
Part Number:		**Cage:** 61429
Draftsperson: MAJ	**Approved:** BEC	**Revision Date:** 04/17/2019

3.2mm x 2.5mm SMD Crystal

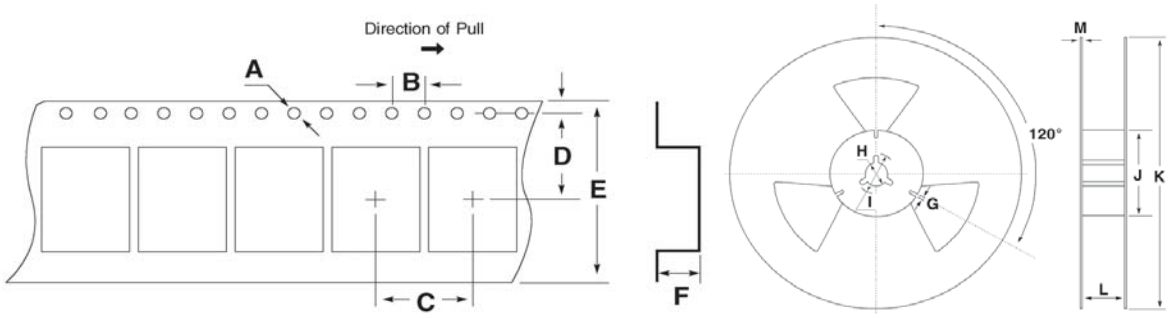
C3BQ
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• TAPE SPECIFICATIONS (millimeters)

A	B	C	D	E	F	STD Reel QTY
∅1.5	4.0	4.0	3.5	8.0	1.25	T3 =3,000 default T2 =2,000 T1 = 1,000

• REEL SPECIFICATIONS (millimeters)

G	H	I	J	K	L	M
2.0	∅13	∅21	∅62	∅178	9.0	1.2



Available Options & Part Identification for SMD Crystal C3BQ[1]

F C3BQ B B M E 25.0

F	C3BQ	B	B	M	E	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** **E=-10 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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