

3.2mm x 2.5mm SMD Crystal

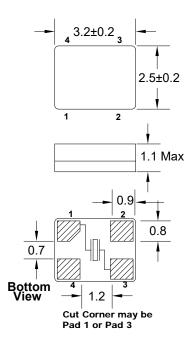
C3BQ (former FQ3225B) DATASHEET

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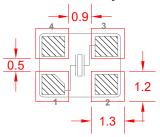
- Tolerances down to 20 PPM
- Stabilities down to 10 PPM

STANDARD SPECIFICATIONS					
PARAMETERS	MAX (unless otherwise noted)				
Frequency Range (Fo)	12.000 ~ 50.000 MHz				
Frequency Tolerance @ 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 on page 2)				
Storage (Tstg)	-55°C ~ +125°C				
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	260°C / 10 Seconds				
Moisture Sensitivity Level (MSL)	1				
Termination Finish	Ag				
Seal Method	Resin				
Lead (Pb) Free	YES				
RoHS / REACH Compliant	YES				

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		



Recommended Solder Pad Layout



Available Operating Temperatures and Stabilities*

Temperature/Stability	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM
-10 ~+70°C	0	0	0	0	0	0
-20 ~+70°C	0	0	0	0	0	0
-40 ~+85°C	X	Χ	X	Х	0	0

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

8 3	Title / Description: C3BQ	Title / Description: C3BQ STANDARD SPECIFICATIONS			
317	Drawing Number: 10065	Drawing Number: 100658			
FOX	Part Number:	Part Number:			
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^{*}Does not imply a stocked part.



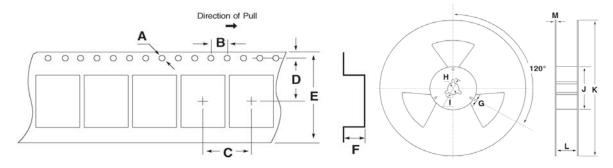
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TAPE SPECIFICATIONS (millimeters)							
Α	A B C D E F STD Reel QTY						
Ø1.5	4.0	4.0	3.5	8.0	1.25	T3 =3,000 default T2 =2,000 T1 = 1,000	

REEL SPECIFICATIONS (millimeters)						
G	Н	- 1	J	K	L	M
2.0	Ø13	Ø 2 1	Ø62	Ø178	9.0	1.2



Available Options & Part Identification for SMD Crystal C3BQ¹ F C3BQ B B M E 25.0

F	C3BQ	В	В	M	ш	25.0
FOX	Model <u>Number</u>	Tolerance B=50ppm C=30ppm D=25ppm E=20ppm	Stability B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm	Load Capacitance² 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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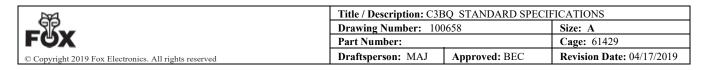
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For datasheet type definitions and a glossary of common terms, visit http://www.foxonline.com/tgcrystals.html .



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