

SMD Crystal

Discontinued 4/20/2018 -Reference PCN# 1001-1

C7BQ (former FQ7050B) DATASHEET

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

C7BQ STANDARD SPECIFICATIONS					
PARAMETERS	MAX (unless otherwise noted)				
Frequency Range (Fo)	6.000 ~ 40.000 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 (T _{OPR})	(See options on page 2)				
Storage (T _{STG})	-40°C ~ +85°C				
Shunt Capacitance (C _o)	5 pF				
Load Capacitance (C _L)	(See options on page 2)				
Drive Level	0.5 mW				
Aging per year	±5 PPM				
Termination Finish	Au				
Seam Method	Resin Sealed				
Lead (Pb) Free	Yes				
RoHS/REACH Complaint	Yes				

^{*} Up to 40.000 MHz is available if this device is replacing an existing 5 x 7mm package. For new designs, above 12.000MHz, we recommend the smaller (C6BQ & C5BQ) packages. Small quantities above 12MHz are only available in the smaller sizes. If you have any questions, please call Customer Support at 1-888-GET-2-FOX.

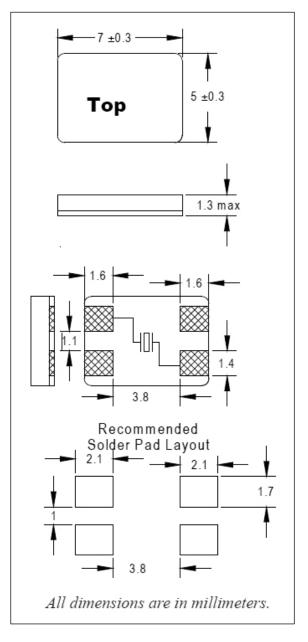
Frequency Range (MHz)	Operating Mode	Max ESR Ω
6.000 ~ 15.999999	Fundamental	80
16.000 ~ 40.000	Fundamental	50

•Available Operating Temperatures and Stabilities

Stability Temperature	±20 PPM	±25 PPM	±30 PPM	±50 PPM
0 ~+70°C	0	0	0	0
-20 ~+70°C	0	0	0	0
-40 ~+85°C	Δ	0	0	0

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

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.





Title / Description: C7BQ STANDARD SPECIFICATIONS

Drawing Number: 101154 Size: A

Part Number: Cage: 61429

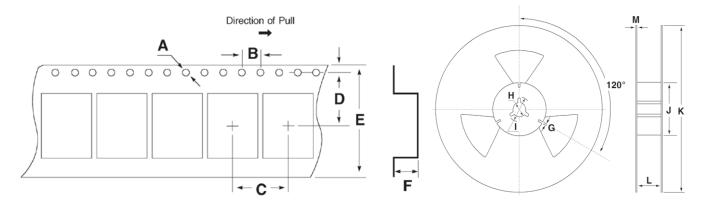
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SMD Crystal

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TAPE SPECIFICATIONS (millimeters)				• REE	L SPE	CIFIC	ATION	IS (mill	imeters)			
Α	В	С	D	Е	F	STD Reel QTY	G	Н	- 1	J	K	L	M
Ø1.5	4.0	8.0	7.5	16.0	2.0	1.000	2.0	Ø13	Ø 2 1	Ø62.5	Ø178	16.4	2.0



Available Options & Part Identification for SMD Crystal C7BQ* F C7BQ C C M C 8.0

F	C7BQ	С	С	M	C	8.0
<u>FOX</u>	Model <u>Number</u>	Tolerance B=50ppm C=30ppm D=25ppm E=20ppm	Stability B=50ppm C=30ppm D=25ppm E=20ppm	Load Capacitance E=10pF G=12pF U=13pF 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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₹	Title / Description: C7BQ ST	Title / Description: C7BQ STANDARD SPECIFICATIONS			
_312	Drawing Number: 101154	Size: A			
FÖX	Part Number:		Cage: 61429		
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SMD Crystal

C7BQ (Former FQ7050) Standard Crystals							
Part Number	Frequency	Tolerance	Stability	Temp Range	CL		
FQ7050B-6.000	6.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF		
FQ7050B-7.3728	7.372800	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF		
FQ7050B-8.000	8.000000	+/- 30 ppm	+/- 30 ppm	0 to +70 C	20pF		
FQ7050BR-6.000	6.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF		
FQ7050BR-7.3728	7.372800	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF		
FQ7050BR-8.000	8.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF		



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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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