



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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SMD Crystal

C7BQ (former FQ7050B) DATASHEET

- 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}) Storage (T _{STG})	(See options on page 2) -40°C ~ +85°C
Shunt Capacitance (C ₀)	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 (FQ6035 & FQ5032) 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.

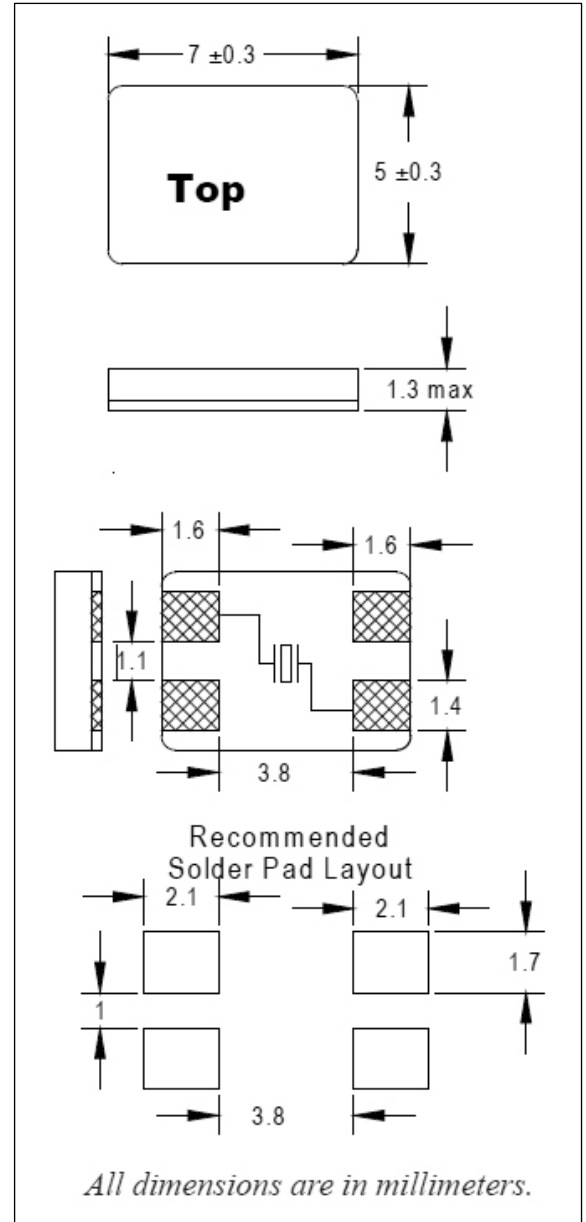
Frequency Range (MHz)	Operating Mode	Max ESR Ω
6.000 ~ 15.999999	Fundamental	80
16.000 ~ 40.000	Fundamental	50

• Available Operating Temperatures and Stabilities

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

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: I01154	Size: A
Part Number:	Cage: 61429
Draftperson: CMR	Approved: RB
Revision Date: 03/20/2016	

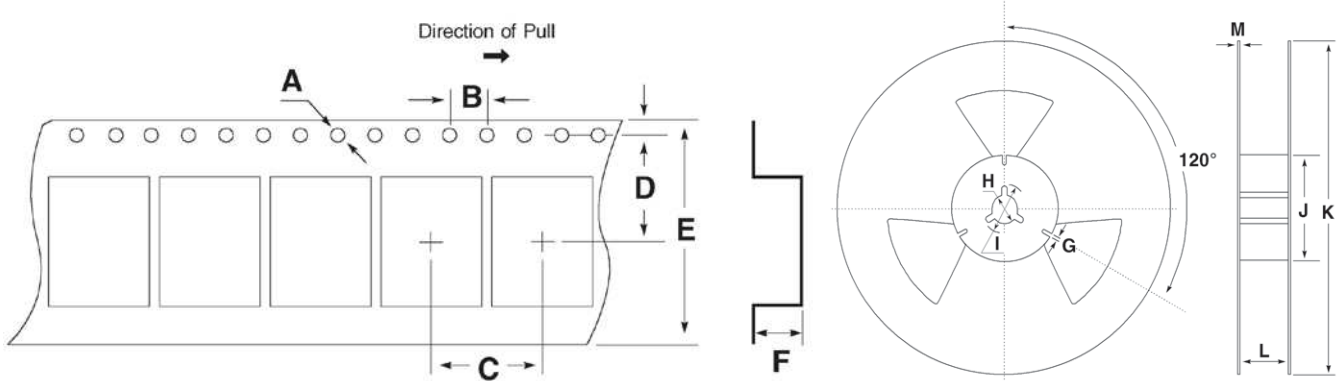


SMD Crystal

C7BQ

(former FQ7050B)
DATASHEET

• TAPE SPECIFICATIONS (millimeters)							• REEL SPECIFICATIONS (millimeters)						
A	B	C	D	E	F	STD Reel QTY	G	H	I	J	K	L	M
Ø1.5	4.0	8.0	7.5	16.0	2.0	1,000	2.0	Ø13	Ø21	Ø62.5	Ø178	16.4	2.0



Available Options & Part Identification for SMD Crystal C7BQ*

F C7BQ C C M C 8.000

F	C7BQ	C	C	M	C	8.000
<u>FOX</u>	<u>Model Number</u>	<u>Tolerance</u> B=50ppm C=30ppm D=25ppm E=20ppm	<u>Stability</u> B=50ppm C=30ppm D=25ppm E=20ppm	<u>Load Capacitance</u> E=10pF G=12pF U=13pF J=15pF K=16pF L=18pF M=20pF	<u>Operating Temperature</u> C=0 to +70C F=-20 to +70C M=-40 to +85C	<u>Frequency (MHz)</u>

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

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SMD Crystal

C7BQ
(former FQ7050B)
DATASHEET

• 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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