



SMD Crystal

C7AQ
(former FQ7050A)
DATASHEET

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

• C7AQ 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 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/REACHCompliant	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.

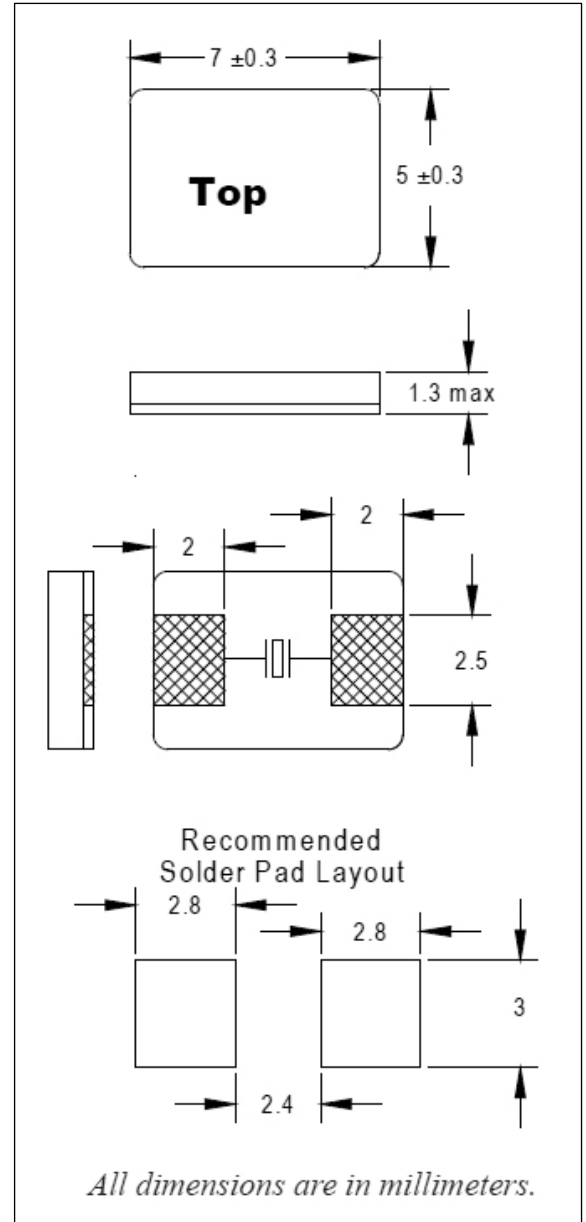
Frequency Range (MHz)	Operating Mode	Max ESR Ω
6.000 ~ 16.000	Fundamental	80
16.000+ ~ 40.000	Fundamental	50

• 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	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.





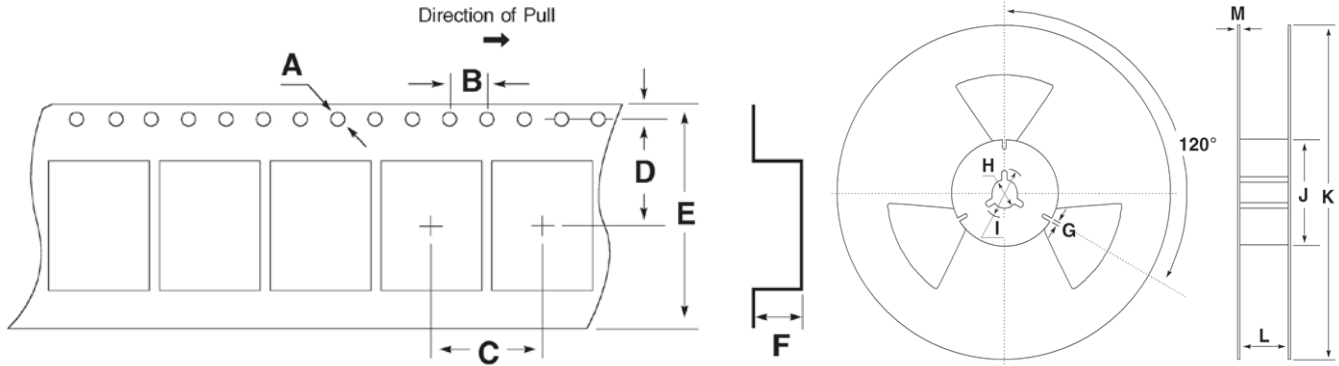
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• TAPE SPECIFICATIONS (millimeters)						
A	B	C	D	E	F	STD Reel QTY
Ø1.5	4.0	8.0	7.5	16.0	2.0	1,000

• REEL SPECIFICATIONS (millimeters)						
G	H	I	J	K	L	M
2.0	Ø13	Ø21	Ø62.5	Ø178	16.4	2.0



Available Options & Part Identification for SMD Crystal C7AQ*

F C7AQ C C M C 6.000

F	C7AQ	C	C	M	C	6.000
FOX	Model Number	Tolerance B=50ppm C=30ppm D=25ppm E=20ppm	Stability B=50ppm C=30ppm D=25ppm E=20ppm	Load Capacitance E=10pF G=12pF K=16pF L=18pF M=20pF N=22pF	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: C7AQ STANDARD SPECIFICATIONS		
	Drawing Number: 101155		Size: A
	Part Number:		Cage: 61429
	Draftsperson: CMR	Approved: RB	Revision Date: 03/20/2017