FC3BQ

(Former FQ3225B)

3.2mm x 2.5mm

SMD Crystal

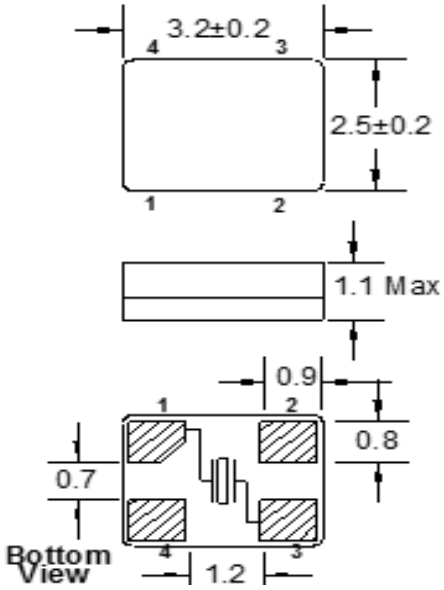
Features

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

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range	12.000 ~ 50.000 MHz
Frequency Tolerance @ 25°C	(See options below)
Frequency Stability, ref 25°C Over Operating Temp Range	(See options below)
Temperature Range Operating (T_{OPR}) Storage (T_{STG})	(See options below) -55°C ~ +125°C
Shunt Capacitance (C_O)	3 pF
Load Capacitance (C_L)	(See options below)
Drive Level	100µW
Aging per year (@ 25°C)	±5 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL) per J-STD-033	1
Termination Finish	Ag
Seal Method	Resin
Lead (Pb) Free	YES
RoHS Compliant	YES

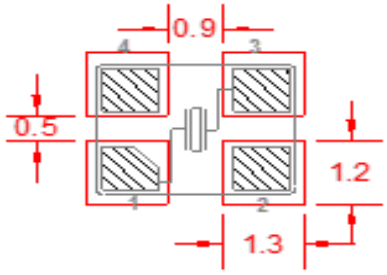
Frequency Range (MHz)	Operating Mode	Max ESR Ω
12.000 ~ 15.999999	Fundamental	120
16.000 ~ 20.000	Fundamental	100
20.000001 ~ 25.000	Fundamental	80
25.000001 ~ 30.000	Fundamental	60
30.000001 ~ 50.000	Fundamental	50

DIMENSIONS / MECHANICAL SPECIFICATIONS



Chamfer may be on pad 1 of pad 3

Recommended Solder Pad Layout



Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, cover shape, etc. may vary.

AVAILABLE OPERATING TEMPERATURES AND STABILITIES*						
Operating Temperature	**±10 PPM**	**±15 PPM**	**±20 PPM**	**±25 PPM**	**±30 PPM**	**±50 PPM**
-10°C ~ +70°C	O	O	O	O	O	O
-20°C ~ +70°C	O	O	O	O	O	O
-40°C ~ +85°C	X	X	X	X	O	O
Key: O = Available, X = Not Available, Δ = Consult Fox Technical Support *Does not imply a stocked part.						

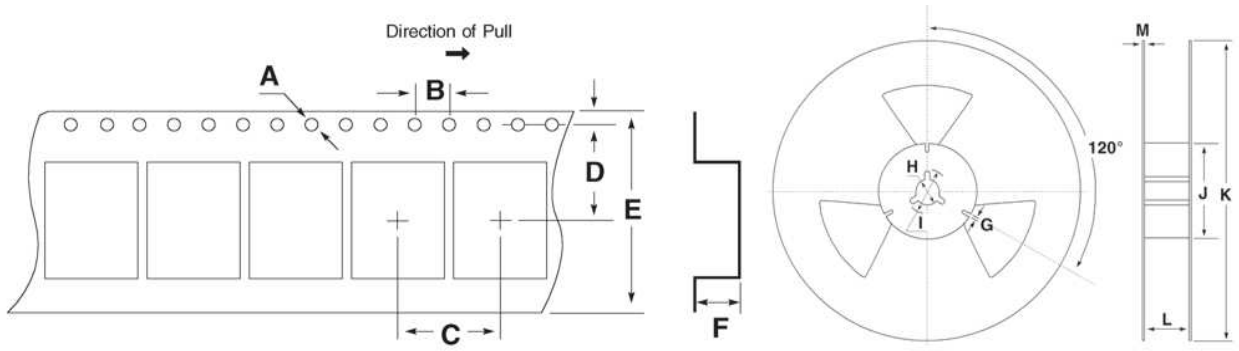
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TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	4.0	3.5	8.0	1.25	-T3 = 3,000	2.0	Ø13	Ø21	Ø62	Ø178	9.0	1.2



Available Options & Part Identification for SMD Crystal FC3BQ[1]

Sample PN: FC3BQBBME25.0-T3

F	C3BQ	B	B	M	E	25.0	-T3
Fox	**Model Number**	**Tolerance** **B = ±50 PPM** C = ±30 PPM D = ±25 PPM E = ±20 PPM	**Stability** **B = ±50 PPM** C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	**Load Capacitance[2]** V = 7pF D = 8pF E = 10pF G = 12pF K = 16pF **M = 20pF**	**Operating Temperature** **E = -10 to +70°C** F = -20 to +70°C M = -40 to +85°C	**Frequency (MHz)**	**Values Added Options** Blank = Bulk T3 = 3,000 pcs

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 us for assistance

Reliability Test Conditions
Please contact Abracon Quality Assurance department