



**THE DATASHEET OF
FC5BQBBKM12.0-T1**



Features

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

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	8.000 ~ 48.000 MHz
Frequency Tolerance @ 25°C	(See options below)
Frequency Stability, ref 25°C	(See options below)
Temperature Range	
Operating (T_{OPR})	(See options below)
Storage (T_{STG})	-40°C ~ +85°C
Shunt Capacitance (C_0)	5 pF
Load Capacitance (C_L)	(See options below)
Drive Level	0.5mW
Aging per year (@ 25°C)	± 5 PPM
Termination Finish	Ag
Seal Method	Resin
Lead (Pb) Free	Yes
RoHS Compliant	Yes

Frequency Range (MHz)	Operating Mode	Max ESR Ω
8.000000 ~ 11.999999	Fundamental	100
12.000000 ~ 16.000	Fundamental	80
16.000001 ~ 48.000	Fundamental	50

DIMENSIONS / MECHANICAL SPECIFICATIONS
<p>The diagram shows three views of the crystal: a top view with dimensions 5±0.2 mm (total length) and 3.2±0.2 mm (width); a side view showing a height of 1.2 Max mm; and a bottom view showing a 2.8 mm wide area with 1.4 mm spacing between pads. The recommended solder pad layout shows a 2.2 mm pad width, 1.8 mm pad spacing, and 1.3 mm overall width. All dimensions are in millimeters.</p>
<p>All dimensions are in millimeters.</p>
<p>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</p>

AVAILABLE OPERATING TEMPERATURES AND STABILITIES*						
Operating Temperature	± 10 PPM	± 15 PPM	± 20 PPM	± 25 PPM	± 30 PPM	± 50 PPM
0 ~+70°C	O	O	O	O	O	O
-20 ~+70°C	O	O	O	O	O	O
-40 ~+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.						

FC5BQ

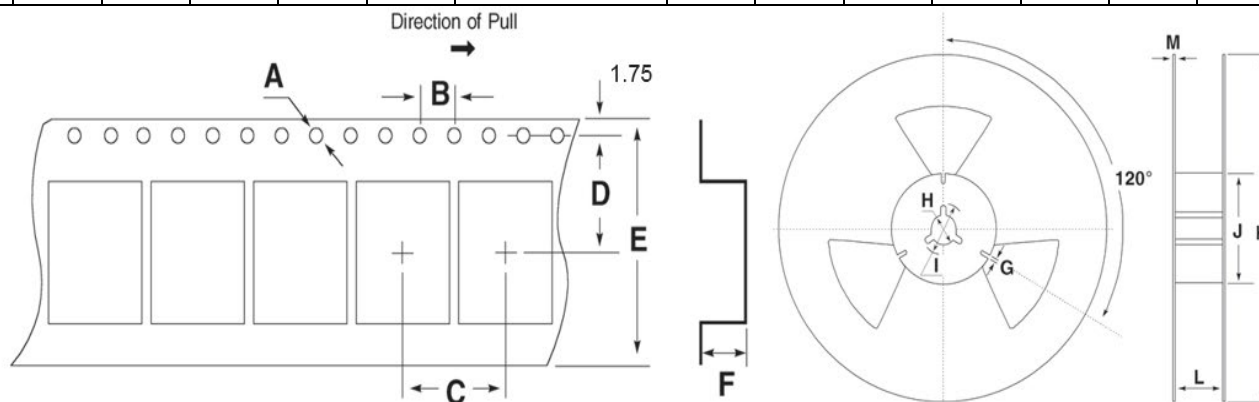
(Former FQ5032B)

5.0mm x 3.2mm

SMD Crystal



TAPE SPECIFICATIONS (mm)						REEL SPECIFICATIONS (mm)							
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.55	4.0	8.0	5.5	12.0	1.4	-T1 = 1,000	2.0	ø13	ø21	ø62	ø180	13.5	2.0



Available Options & Part Identification for SMD Crystal C5BQ¹

Sample PN: FC5BQCCMC25.0-T1

F	C5BQ	C	C	M	C	25.0	-T1
Fox	Model Number	Tolerance	Stability	Load Capacitance²	Operating Temperature	Frequency (MHz)	Values Added Options
		B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM	B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	V = 7pF D = 8pF E = 10pF G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF	C = 0 to +70°C F = -20 to +70°C M = -40 to +85°C		Blank = Bulk T1 = 1,000 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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View FC5BQBBKM12.0-T1 on WIN SOURCE](#)

 [Fox Electronics](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management