THE DATASHEET OF

FC5BSCBJF12.0-1-T1

FC5BS

(Former FX532B)

5.0mm x 3.2mm
Ceramic SMD Crystal

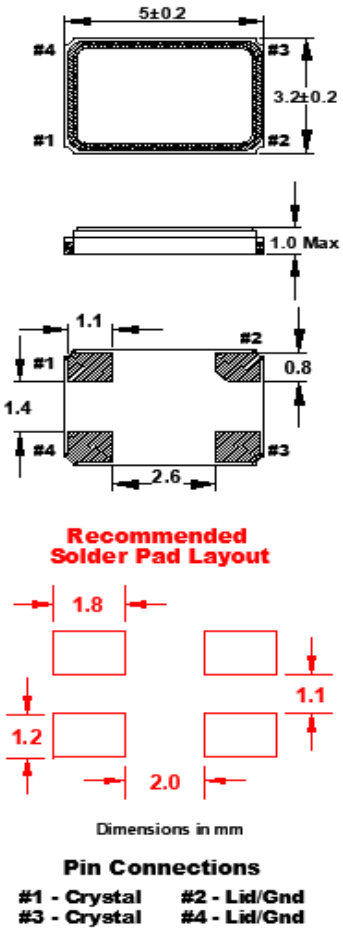
Features

- Tolerances down to ±10 ppm
- Stabilities down to ±5 ppm
- Temperature Ranges as wide as -55°C to +125°C

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range	8.000 ~ 200.000 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)	5.0 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 x 2
Moisture Sensitivity Level (MSL) per J-STD-033	1
Termination Finish	Au over Ni
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS Compliant	Yes

Frequency Range (MHz)	Operating Mode	Max ESR Ω
8.000 ~ 9.749999	Fundamental	70
9.750 ~ 9.999999	Fundamental	60
10.000 ~ 11.999999	Fundamental	45
12.000 ~ 15.999999	Fundamental	35
16.000 ~ 19.999999	Fundamental	30
20.000 ~ 49.999999	Fundamental	25
50.000 ~ 200.000	Fundamental	20
40.000 ~ 79.999999	3rd OT	100
80.000 ~ 99.999999	3rd OT	80
100.000 ~ 133.000	3rd OT	60

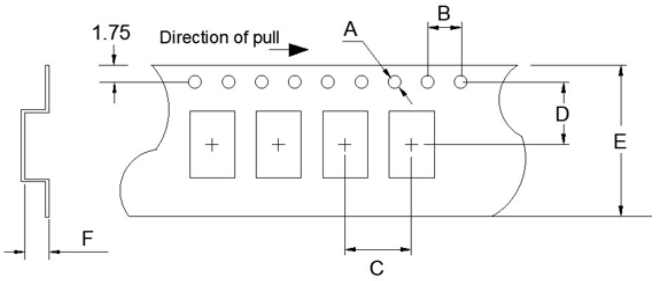
DIMENSIONS / MECHANICAL SPECIFICATIONS



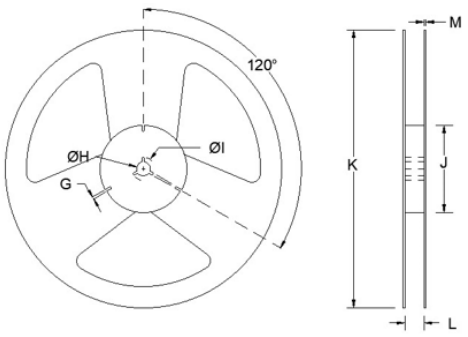
Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

AVAILABLE OPERATING TEMPERATURES AND STABILITIES*								
Operating Temperature	**±5 PPM**	**±10 PPM**	**±15 PPM**	**±20 PPM**	**±25 PPM**	**±30 PPM**	**±50 PPM**	**±100 PPM**
0 ~ 70°C	X	O	O	O	O	O	O	N/A
-10 ~+60°C	O	O	O	O	O	O	O	N/A
-10 ~+70°C	X	O	O	O	O	O	O	N/A
-20 ~+70°C	X	O	O	O	O	O	O	N/A
-30 ~+85°C	X	X	O	O	O	O	O	N/A
-40 ~+85°C	X	X	O	O	O	O	O	N/A
-40 ~+105°C	X	X	X	X	X	X	O	O
-40 ~+125°C	X	X	X	X	X	X	O	O
-55 ~+125°C	X	X	X	X	X	X	O	O
Key: O = Available, X = Not Available, N/A Not Applicable *Does not imply a stocked part.								

TAPE SPECIFICATIONS (mm)						
A	**B**	**C**	**D**	**E**	**F**	**REEL QTY**
ø1.55	4.0	8.0	5.5	12.0	1.4	-T1 = 1,000



REEL SPECIFICATIONS (mm)						
G	**H**	**I**	**J**	**K**	**L**	**M**
2.0	Ø13	Ø21	Ø80	Ø178	13.5	2.0



Available Options & Part Identification for Crystal Model C5BS[1] Sample PN: FC5BSCCEM25.0-T1							
F	**C5BS**	**C**	**C**	**E**	**M**	**25.0**	**-T1**
Fox	**Model Number**	**Tolerance** B = ±50ppm **C = ±30ppm** D = ±25ppm E = ±20ppm F = ±15ppm H = ±10ppm	**Stability** A = ±100 ppm B = ±50 ppm **C = ±30 ppm** D = ±25 ppm E = ±20 ppm F = ±15 ppm H = ±10 ppm L = ±5 ppm	**Load Capacitance[2]** **E = 10pF** G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF	**Operating Temperature** C = 0 to 70°C D = -10 to +60°C E = -10 to +70°C F = -20 to +70°C K = -30 to +85°C **M = -40 to +85°C** P = -40 to +105°C I = -40 to +125°C T = -55 to +125°C	**Frequency (MHz)**	**Values Added Options** 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

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