FC1BS

(Former FX2016B)

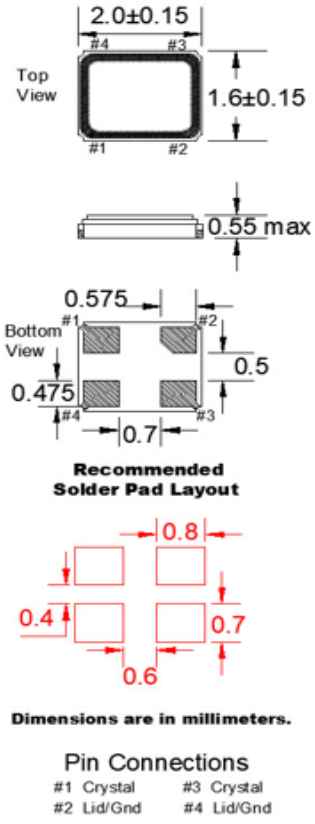
2.0mm x 1.6mm
Ceramic SMD Crystal

Features

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

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range	16.000 ~ 200.000 MHz
Frequency Tolerance @ 25°C	(See options below)
Frequency Stability, ref 25°C	(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	100 µW
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	N/A
Termination Finish	Au (0.3~1.0µm) over Ni (1.27~8.89µm)
Seal Method	Seam Seal
Lead (Pb) Free	Yes
RoHS Compliant	Yes, no exemptions
REACH Compliant (latest version)	Yes

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.

Frequency Range (MHz)	Operating Mode	Max ESR Ω
16.000 ~ 19.199999	Fundamental	200
20.000 ~ 23.999999	Fundamental	120
24.000 ~ 29.999999	Fundamental	100
30.000 ~ 39.999999	Fundamental	80
40.000 ~ 200.000	Fundamental	60

AVAILABLE OPERATING TEMPERATURES AND STABILITIES

Operating Temperature	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
0°C ~ +70°C	O	O	O	O	O	O	N/A
-10°C ~+60°C	O	O	O	O	O	O	N/A
-10°C ~+70°C	O	O	O	O	O	O	N/A
-20°C ~+70°C	O	O	O	O	O	O	N/A
-30°C ~+85°C	O	O	O	O	O	O	N/A
-40°C ~+85°C	X	O	O	O	O	O	N/A
-40°C ~+105°C	X	X	X	X	X	O	O
-40°C ~+125°C	X	X	X	X	X	O	O
-55°C ~+125°C	X	X	X	X	X	O	O

Key: O = Available, X = Not Available, N/A = Not Applicable

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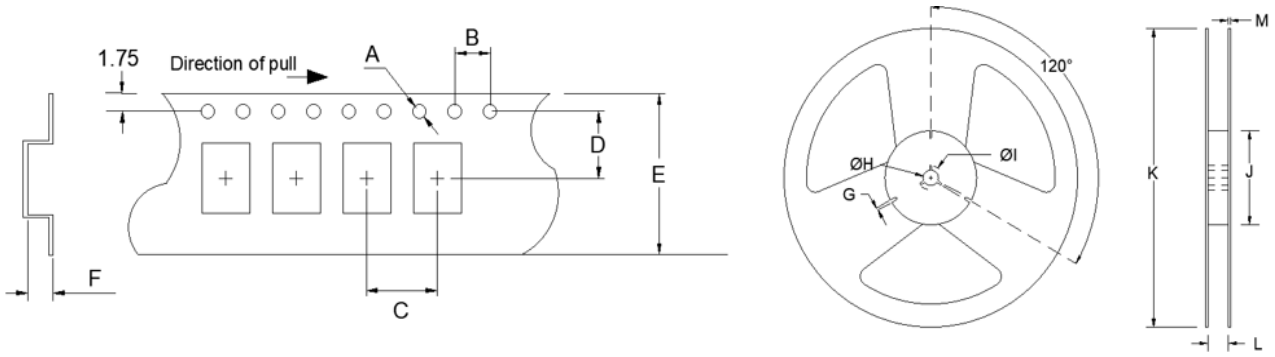
TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.55	4.0	4.0	3.5	8.0	0.65	-T3 = 3,000 -T2 = 2,000 -T1 = 1,000	2.0	Ø13.0	Ø21.0	Ø60.0	Ø180.0	9.0	2.0



Available Options & Part Identification for Crystal Model C1BS[1]

Sample PN: FC1BSEEEM32.0-T1

F	C1BS	E	E	E	M	32.0	-T1
Fox	**Model Number**	**Tolerance**	**Stability**	**Load Capacitance[2]**	**Operating Temperature**	**Frequency (MHz)**	**Values Added Options**
		B = ±50 PPM	B= ±50 PPM	V=7pF	C = 0 ~ +70°C		Blank = Bulk
		C = ±30 PPM	C = ±30 PPM	D=8pF	D = -10 ~ +60°C		T1 = 1,000 pcs
		D = ±25 PPM	D = ±25 PPM	W=9pF	E = -10 ~ +70°C		T2 = 2,000 pcs
		E = ±20 PPM	**E = ±20 PPM**	**E=10pF**	F = -20 ~ +70°C		T3 = 3,000 pcs
		F = ±15 PPM	F = ±15 PPM	G=12pF	K = -30 ~+85°C		
		H = ±10 PPM	H = ±10 PPM	J=15pF	**M = -40 ~ +85°C**		
				L=18pF	P = -40 ~ +105°C		
				M=20pF	I = -40 ~ +125°C		
					T = -55 ~ +125°C		

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