Ceramic SMD Crystal



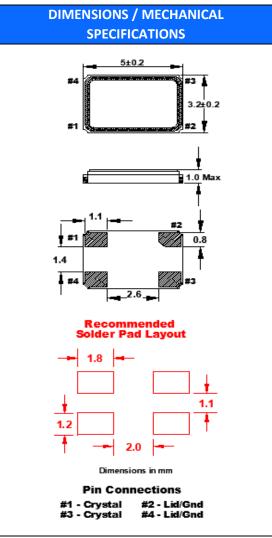
(Former FX532B)

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 (Co)	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	$\mathbf{Max}\ \mathbf{ESR}\ \Omega$
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



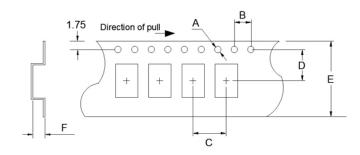
Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

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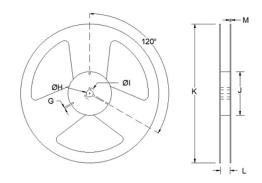


AVAILABLE OPERATING TEMPERATURES AND STABILITIES*								
Operating Temperature	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
0 ~ 70°C	Х	0	0	0	0	0	0	N/A
-10 ~+60°C	0	0	0	0	0	0	0	N/A
-10 ~+70°C	Χ	0	0	0	0	0	0	N/A
-20 ~+70°C	Χ	0	0	0	0	0	0	N/A
-30 ~+85°C	Χ	Х	0	0	0	0	0	N/A
-40 ~+85°C	Χ	Х	0	0	0	0	0	N/A
-40 ~+105°C	Χ	Х	Х	Х	Х	Х	0	0
-40 ~+125°C	Χ	Х	Х	Х	Х	Х	0	0
-55 ~+125°C	Х	Х	Х	Х	Х	Х	0	0
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					REEL QTY		
ø1.55	4.0	8.0	5.5	12.0	1.4	-T1 = 1,000	



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





(Former FX532B)

Available Options & Part Identification for Crystal Model C5BS ¹ Sample PN: <u>FC5BSCCEM25.0-T1</u>									
F	C5BS	С	С	E	M	25.0	-T1		
Fox	<u>Model</u> <u>Number</u>	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.

Reliability Test Conditions

Please contact Abracon Quality Assurance department

² Listed load capacitances represent the most commonly used. Other load capacitances are available. Contact us for assistance

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ABRACON:

FC5BSBBLM16.0-T1 FC5BSCBLM20.0-T1 FC5BSECGC24.206667-BULK