FCOBS (Former FX1612B)



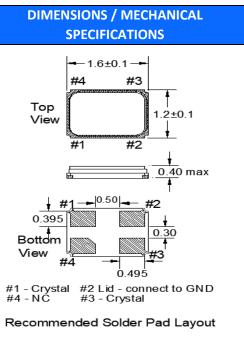


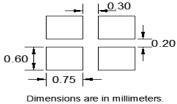
Features

- 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	23.900 ~ 80.000 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)	3 pF				
Load Capacitance (CL)	(See options below)				
Drive Level	100 μW				
Aging per year (@ 25°C)	±3 PPM				
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2				
Moisture Sensitivity Level (MSL) per J-STD-033	N/A				
Termination Finish	Au (0.3~1μm) over Ni (1.27~8.89μm)				
Seal Method	Seam				
Lead (Pb) Free	Yes				
RoHS Compliant	Yes, no exemptions				
REACH Compliant (latest version)	Yes				

Frequency Range (MHz)	Operating Mode	Max ESR Ω
23.900 ~ 29.999999 MHz	Fundamental	150
30.000 ~ 80.000 MHz	Fundamental	100





Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellation's, Reference pin shape, reference pin location, etc. may vary.

AVAILABLE OPERATING TEMPERATURES AND STABILITIES*								
Operating Temperature	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM	
-10 ~+60°C	0	0	0	0	0	0	N/A	
-10 ~+70°C	0	0	0	0	0	0	N/A	
-20 ~+70°C	0	0	0	0	0	0	N/A	
-30 ~+85°C	Х	0	0	0	0	0	N/A	
-40 ~+85°C	Х	0	0	0	0	0	N/A	
-40 ~+105°C	Х	Х	Х	Х	Х	0	0	
-40 ~+125°C	Х	Х	Х	Х	Х	0	0	
-55 ~+125°C	Х	Х	Х	Х	Х	0	0	
Key: $O = Available X = Not Available N/A = Not Applicable$								

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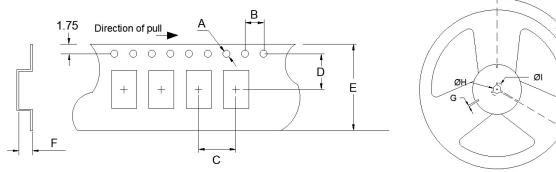
1.6mm x 1.2 mm

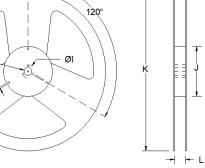


Μ

Ceramic SMD Crystal

TAPE SPECIFICATIONS (mm)					RE	EL SPE	CIFICAT	IONS (m	m)				
Α	В	С	D	E	F	REEL QTY	G	н	I	J	к	L	м
ø1.55	4.0	4.0	3.5	8.0	0.45	-T1 = 1,000 -T2 = 2,000	2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.2
Ø1.55	4.0	4.0	3.5	8.0	0.45	-12 = 2,000 - T3 = 3,000	2.0	ØI3	ØZI	Ø60	Ø180	9.0	





Available Options & Part Identification for SMD Crystal C0BS ¹ Sample PN: <u>FC0BSBCVM40.0-T3</u>								
F	COBS	В	С	V	М	40.0	-ТЗ	
<u>Fox</u>	<u>Model</u> <u>Number</u>	Tolerance B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	D = ±25 PPM E = ±20 PPM	Load C = 4 pF V = 7pF D = 8pF E = 10pF G = 12pF M = 20PF	$\frac{Operating}{Temperature} \\ C = 0 to +70°C \\ D = -10 to +60°C \\ E = -10 to +70°C \\ F = -20 to +70°C \\ K = -30 to +85°C \\ M = -40 to +85°C \\ P = -40 to +105°C \\ I = -40 to +125°C \\ T = -55 to +125°C \\ \end{cases}$	<u>Frequency</u> <u>(MHz)</u>	Values Added Options Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs 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	

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ABRACON:

FC0BSFEEM23A99675-T3FC0BSCBDM50.0-T3FC0BSFEEN23A99675-T3FC0BSHEMM40.0-T3FC0BSCCEC32.0-T3FC0BSEEDF32.0-T3FC0BSFFDK38.4-1-T3FC0BSHFDK38.4-1-T3FC0BSEEDM25.0-T3FC0BSEEWM32.0-T3FC0BSCCEF25.0-T3FC0BSHFDM50.0-1-T3FC0BSHFDM50.0-1-T3