Ceramic SMD Crystal



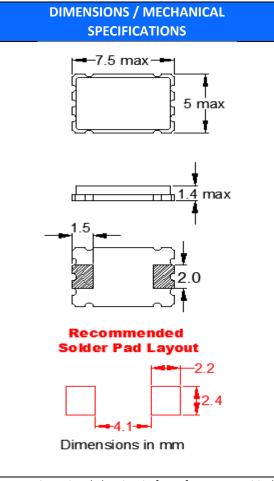
Features

(Former FE)

- Tolerances down to ±30 PPM
- Stabilities down to ±15 PPM
- Temperature Ranges as wide as -40°C to +85°C
- Available above 28MHz (3rd & 5th Overtone Modes)

STANDARD SPECIFICATIONS						
PARAMETERS	MAX (Unless otherwise noted)					
Frequency Range	6.000 ~ 160.000 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 (Co)	5 pF					
Load Capacitance (C _L)	(See options below)					
Drive Level	0.5 mW					
Aging per year (@ 25°C)	±5 PPM					
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2					
Moisture Sensitivity Level (MSL) per	1					
J-STD-033						
Termination Finish	Au over Ni					
Seal Method	Resin					
Lead (Pb) Free	Yes					
RoHS Compliant	Yes					

Frequency Range (MHz)	Operating Mode	Max ESR Ω
6.000 ~ 7.999	Fundamental	80
8.000 ~ 9.999	Fundamental	60
10.000 ~ 15.999	Fundamental	50
16.000 ~ 50.000	Fundamental	40
28.000 ~ 84.000	3 rd Overtone	60
>84.000 ~ 160.000	5 th Overtone	80



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	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM		
-0°C ~ +75°C	0	0	0	0	0		
-10°C ~ +60°C	0	0	0	0	0		
-10°C ~ +70°C	0	0	0	0	0		
-20°C ~ +70°C	0	0	0	0	0		
-30°C ~ +85°C	Х	0	0	0	0		
-40°C ~ +85°C	Х	0	0	0	0		
Kev: O = Available, X = Not Available, Δ = Consult Fox Technical Support, *Does not imply a stocked part.							



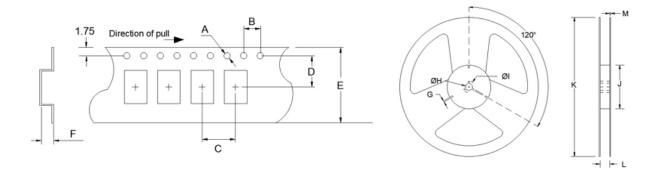
(Former FE)

7.5mm x 5.0mm

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TAPE SPECIFICATIONS (mm)				REEL SPECIFICATIONS (mm)									
Α	В	С	D	E	F	REEL QTY	G	Н	ı	J	K	L	М
ø1.5	4.0	8.0	7.5	16.0	2.3	-T1 = 1,000 -T2 = 2,000 Default	2.0	Ø13	Ø21	Ø80	Ø180 Ø250	17.5	2.0



Available Options & Part Identification for Ceramic SMD Crystal C7AS ¹ Sample PN: FC7ASCCL40.0-T2								
F	C7AS	С	С	L	M	40.0	-T2	
<u>Fox</u>	Model	<u>Tolerance</u>	<u>Stability</u>	<u>Load</u>	Operating	Frequency	Values Added	
	<u>Number</u>	B = ±50 PPM	$B = \pm 50 PPM$	<u>Capacitance²</u>	Temperature	<u>(MHz)</u>	<u>Options</u>	
		C = ±30 PPM	C = ±30 PPM	E = 10pF	$C = 0 \text{ to } +70^{\circ}C$		Blank = Bulk	
			$D = \pm 25 PPM$	G = 12pF	$D = -10 \text{ to } +60^{\circ}\text{C}$		T1 = 1,000 pcs	
			$E = \pm 20 PPM$	J = 15pF	$E = -10 \text{ to } +70^{\circ}\text{C}$		T2 = 2,000 pcs	
			$F = \pm 15 PPM$	L = 18pF	$F = -20 \text{ to } +70^{\circ}\text{C}$			
				M = 20pF	$K = -30 \text{ to } +85^{\circ}\text{C}$			
					$M = -40 \text{ to } +85^{\circ}\text{C}$			

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	