





Features

- 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 (TOPR)	(See options below)						
Storage (T _{STG})	-40°C ~ +85°C						
Shunt Capacitance (C ₀)	5 pF						
Load Capacitance (C∟)	(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	$\textbf{Max ESR}\Omega$		
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			
Key: O = Available, X = Not Available, Δ = Consult Fox Technical Support, *Does not imply a stocked part.								

Revised A: 10/24/2019

7.5mm x 5.0mm Ceramic SMD Crystal



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





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