FC7AS

(Former FE)

7.5mm x 5.0mm
Ceramic SMD Crystal

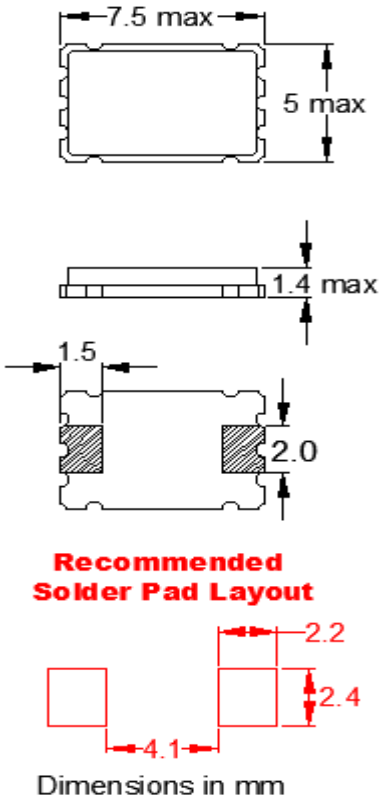
Features

- Tolerances down to ±30 PPM
- Stabilities down to ±15 PPM
- Temperature Ranges as wide as -40°C to +85°C

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range	6.000 ~ 50.000 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) -40°C ~ +85°C
Shunt Capacitance (C_O)	7 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 J-STD-033	1
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

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.

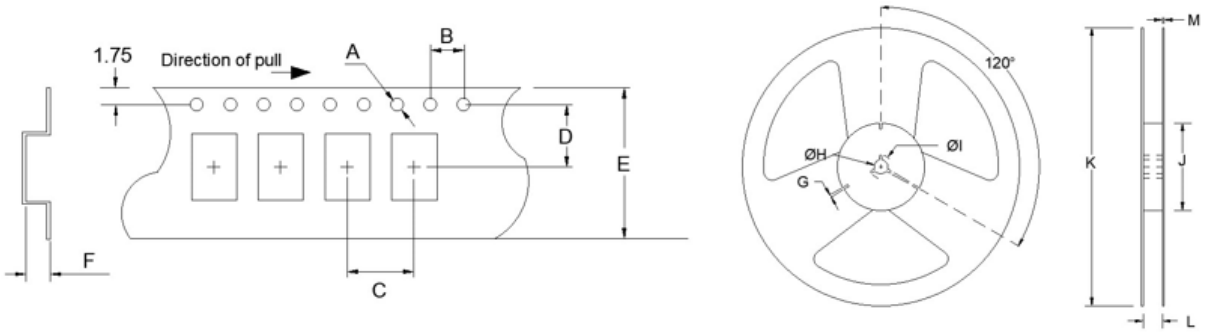
AVAILABLE OPERATING TEMPERATURES AND STABILITIES*					
Operating Temperature	**±15 PPM**	**±20 PPM**	**±25 PPM**	**±30 PPM**	**±50 PPM**
-0°C ~ +75°C	O	O	O	O	O
-10°C ~ +60°C	O	O	O	O	O
-10°C ~ +70°C	O	O	O	O	O
-20°C ~ +70°C	O	O	O	O	O
-30°C ~ +85°C	X	O	O	O	O
-40°C ~ +85°C	X	O	O	O	O
Key: O = Available, X = Not Available, Δ = Consult Fox Technical Support, *Does not imply a stocked part.					

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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
ø1.5	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 FC7AS[1]

Sample PN: FC7ASCCLM40.0-T2

F	C7AS	C	C	L	M	40.0	-T2
Fox	**Model Number**	**Tolerance** B = ±50 PPM **C = ±30 PPM**	**Stability** B = ±50 PPM **C = ±30 PPM** D = ±25 PPM E = ±20 PPM F = ±15 PPM	**Load Capacitance[2]** E = 10pF G = 12pF J = 15pF **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**	**Frequency (MHz)**	**Values Added Options** Blank = Bulk T1 = 1,000 pcs T2 = 2,000 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