## **FCABS**

# 1.2mm x 1.0mm Ceramic SMD Crystal



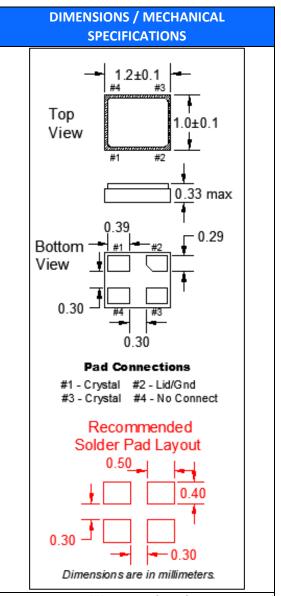
#### **Features**

- Tolerances down to ±10 PPM
- Stabilities down to ±10 PPM
- Temperature Ranges as wide as -40°C to +85°C

STANDARD SPECIFICATIONS							
PARAMETERS	MAX (Unless otherwise noted)						
Frequency Range	32.000 ~ 80.000 MHz						
Frequency Tolerance @ 25°C	(See options below)						
Frequency Stability, ref 25°C	(See options below)						
Temperature Range							
Operating (T <sub>OPR</sub> )	(See options below)						
Storage (T <sub>STG</sub> )	-55°C ~ +125°C						
Shunt Capacitance (Co)	2 pF						
Load Capacitance (C <sub>L</sub> )	(See options below)						
Drive Level	100μW (10μW Typical)						
Aging per year (@ 25°C)	±3 PPM						
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2						
Moisture Sensitivity Level (MSL) per	N/A						
J-STD-033							
Termination Finish	Au (0.3~1μm) over						
	Ni (1.27~8.89μm)						
Lead (Pb) Free	Yes						
RoHS Compliant	Yes, no exemptions						
REACH Compliant (latest version)	Yes						

Frequency Range (MHz)	<b>Operating Mode</b>	Max ESR $\Omega$
32.000 ~ 32.999999	Fundamental	100
33.000 ~ 36.999999	Fundamental	80
37.000 ~ 80.000	Fundamental	60

AVAILABLE OPERATING TEMPERATURES AND STABILITIES								
Operating Temperature ±10 PPM ±15 PPM ±20 PPM ±25PPM								
-20 ~ +70°C	0	0	0	0				
-30 ~ +85°C	Х	0	0	0				
-40 ~ +85°C	Х	0	0	0				
Key: O = Available, X = Not Available								



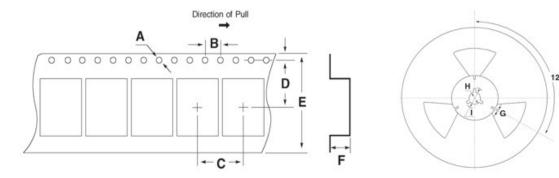
Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

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I	TAPE SPECIFICATIONS (mm)						RE	EL SPE	CIFICAT	IONS (m	m)			
	Α	В	С	D	E F REEL QTY		G	Н	ı	J	К	L	М	
	ø1.5	4.0	4.0	3.5	8.0	0.45	-T5 = 5,000	2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.5



Available Options & Part Identification for CABS <sup>1</sup> Sample PN: <u>FCABSFFDM40.0-T5</u>										
F	CABS	40.0	-T5							
<u>Fox</u>	<u>Model</u>	<u>Tolerance</u>	<u>Stability</u>	<u>Load</u>	<b>Operating</b>	<u>Frequency</u>	Values Added			
	<u>Number</u>	D = ±25 PPM	$D = \pm 25 PPM$	Capacitance <sup>2</sup>	<b>Temperature</b>	<u>(MHz)</u>	<u>Options</u>			
			E = ±20 PPM	B = 6 pF	F = -20 ~ +70°C		Blank = Bulk			
	F = ±1!		F = ±15 PPM	V = 7 pF	K = -30 ~ +85°C		T5 = 5,000 pcs			
		H = ±10 PPM	$H = \pm 10 PPM$	D = 8 pF	$M = -40 \sim +85$ °C					
			E = 10 pF							
				G = 12 pF						

<sup>1</sup> Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

#### **Reliability Test Conditions**

Please contact Abracon Quality Assurance department

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

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### **ABRACON:**

FCABSFEVK37.4-T3 FCABSFEVK38.4-T3 FCABSFEVK52.0-T3