FCABS

1.2mm x 1.0mm
Ceramic SMD Crystal

Features

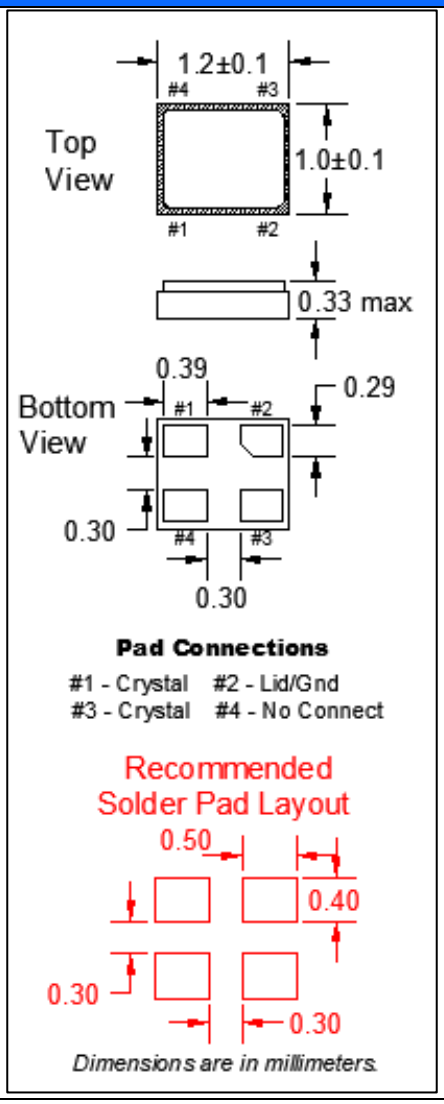
- Tolerances down to ±10 PPM
- Stabilities down to ±10 PPM
- Temperature Ranges as wide as -40˚C to +85˚C

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_{OPR}) Storage (T_{STG})	 (See options below) -55°C ~ +125°C
Shunt Capacitance (C_O)	2 pF
Load Capacitance (C_L)	(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 J-STD-033	N/A
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)	Operating Mode	Max ESR Ω
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	O	O	O	O
-30 ~ +85°C	X	O	O	O
-40 ~ +85°C	X	O	O	O
Key: O = Available, X = Not Available				

DIMENSIONS / MECHANICAL SPECIFICATIONS

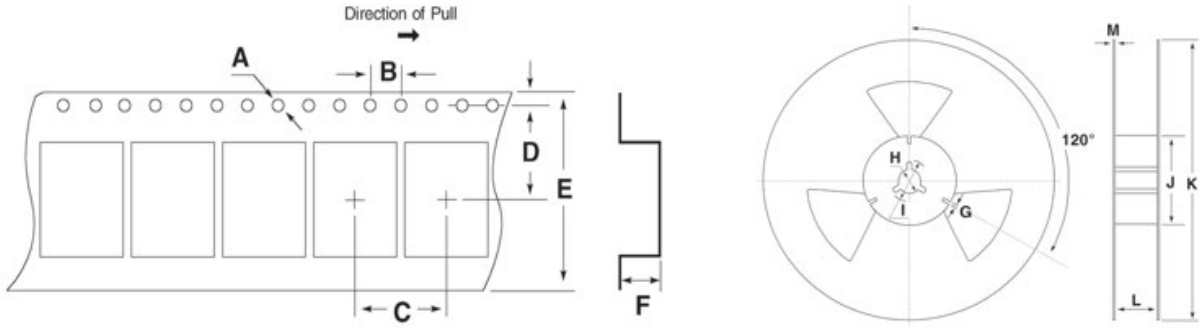


Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

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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	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[1]

Sample PN: FCABSFFDM40.0-T5

F	CABS	F	F	D	M	40.0	-T5
Fox	**Model Number**	**Tolerance** D = ±25 PPM E = ±20 PPM **F = ±15 PPM** H = ±10 PPM	**Stability** D = ±25 PPM E = ±20 PPM **F = ±15 PPM** H = ±10 PPM	**Load Capacitance[2]** B = 6 pF V = 7 pF **D = 8 pF** E = 10 pF G = 12 pF	**Operating Temperature** F = -20 ~ +70°C K = -30 ~ +85°C **M = -40 ~ +85°C**	**Frequency (MHz)**	**Values Added Options** Blank = Bulk T5 = 5,000 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