FC9SD

(Former HC49SSDLF)

13.5mm X 5.0mm

Resistance Weld SMD Crystal

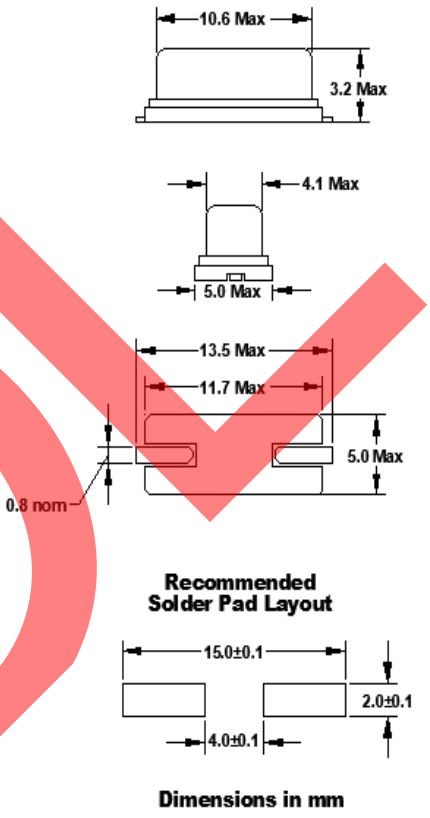
Features

- Tolerances down to ±10PPM
- Stabilities down to ±5PPM
- Temperature Ranges as wide to -55˚C to +125˚C

STANDARD SPECIFICATIONS	
PARAMETERS	**MAX (Unless otherwise noted)**
Frequency Range	4.000 ~ 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)	7 pF
Load Capacitance (C_L)	(See options below)
Drive Level	0.5 mW (0.1 mW typical)
Aging per year (@ 25°C)	±3 PPM
Moisture Sensitivity Level (MSL)	260ºC / 10 Seconds x 2
Termination Finish	Sn/Ag3/Cu0.5
Seal Method	Resistance Weld
Lead (Pb) Free	Yes
RoHS Compliant	Yes - No Exemptions

Frequency Range (MHz)	Operating Mode	Max ESR Ω
4.000 ~ 5.000	Fundamental	150
>5.000 ~ 6.000	Fundamental	120
>6.000 ~ 7.000	Fundamental	100
>7.000 ~ 9.000	Fundamental	80
>9.000 ~ 13.000	Fundamental	60
>13.000 ~ 20.000	Fundamental	40
>20.000 ~ 40.000	Fundamental	30
24.000 ~ 70.000	3rd OT	100
>70.000 ~ 80.000	3rd OT	70

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	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
-10°C ~+60°C	O	O	O	O	O	O	O	O
-20°C ~+70°C	Δ	O	O	O	O	O	O	O
-40°C ~+85°C	X	X	O	O	O	O	O	O
-40°C ~+105°C	X	X	X	X	X	Δ	O	O
-40°C ~+125°C	X	X	X	X	X	X	Δ	O
-55°C ~+125°C	X	X	X	X	X	X	Δ	O

Key: O = Available, X = Not Available, Δ = Consult Fox Technical Support, *Does not imply a stocked part.

FOX

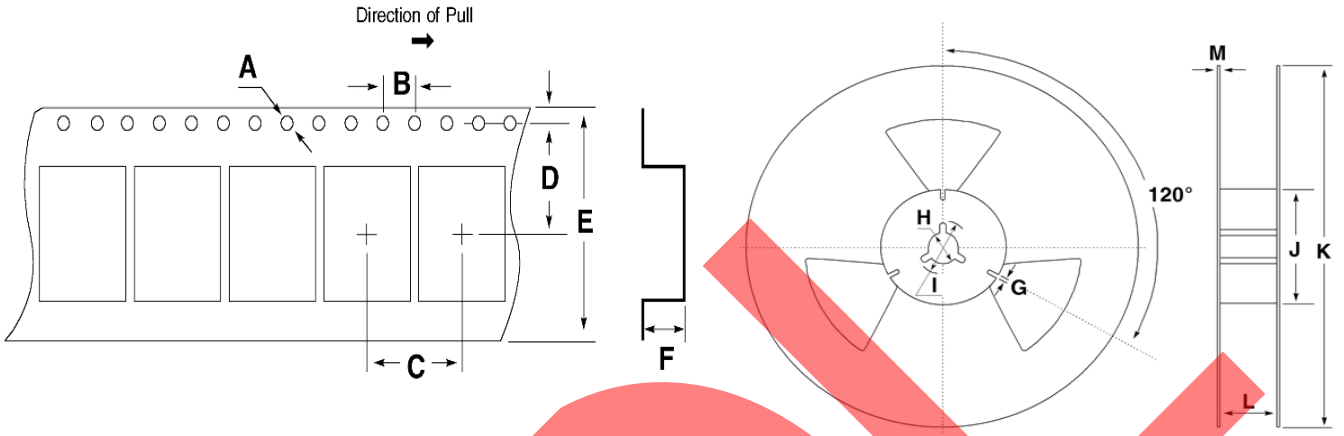
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TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.55	4.0	12.0	11.5	24.0	3.5	T1 = 1,000	2.0	Ø13	Ø21	Ø80	Ø330	25.5	2.0



Available Options & Part Identification for Resistance Weld SMD Crystal FC9SD[1]

Sample PN: FC9SDCBMF25.0-T1

F	C9SD	C	B	M	F	25.0	-T1
Fox	**Model Number**	**Tolerance** B = ±50 PPM **C = ±30 PPM** D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	**Stability** A = ±100 PPM **B = ±50 PPM** C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM L = ±5 PPM	**Load Capacitance[2]** A = Series E = 10pF G = 12pF J = 15pF K = 16Pf L = 18pF **M = 20pF** Q = 30pF	**Operating Temperature** D = -10 to +60°C **F = -20 to +70°C** M = -40 to +85°C P = -40 to +105°C I = -40 to +125°C T = -55 to +125°C	**Frequency (MHz)**	**Values Added Options** Blank = Bulk **T1 = 1,000 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

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