

Features

- Tolerances down to ± 10 PPM
- Stabilities down to ± 5 PPM
- Temperature Ranges as wide to -55°C to $+125^{\circ}\text{C}$

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})	(See options below)
Storage (T_{STG})	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Shunt Capacitance (C_0)	7 pF
Load Capacitance (C_L)	(See options below)
Drive Level	0.5 mW (100 μ W typical)
Aging per year (@ 25°C)	± 3 PPM
Moisture Sensitivity Level (MSL) per J-STD-033	260°C / 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
<p>Recommended Solder Pad Layout</p>
<p>Dimensions in mm</p>
<p>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.</p>

AVAILABLE OPERATING TEMPERATURES AND STABILITIES*								
Operating Temperature	± 5 PPM	± 10 PPM	± 15 PPM	± 20 PPM	± 25 PPM	± 30 PPM	± 50 PPM	± 100 PPM
$-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$	O	O	O	O	O	O	O	O
$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Δ	O	O	O	O	O	O	O
$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	X	X	O	O	O	O	O	O
$-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$	X	X	X	X	X	Δ	O	O
$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$	X	X	X	X	X	X	Δ	O
$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	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.

FC9SD

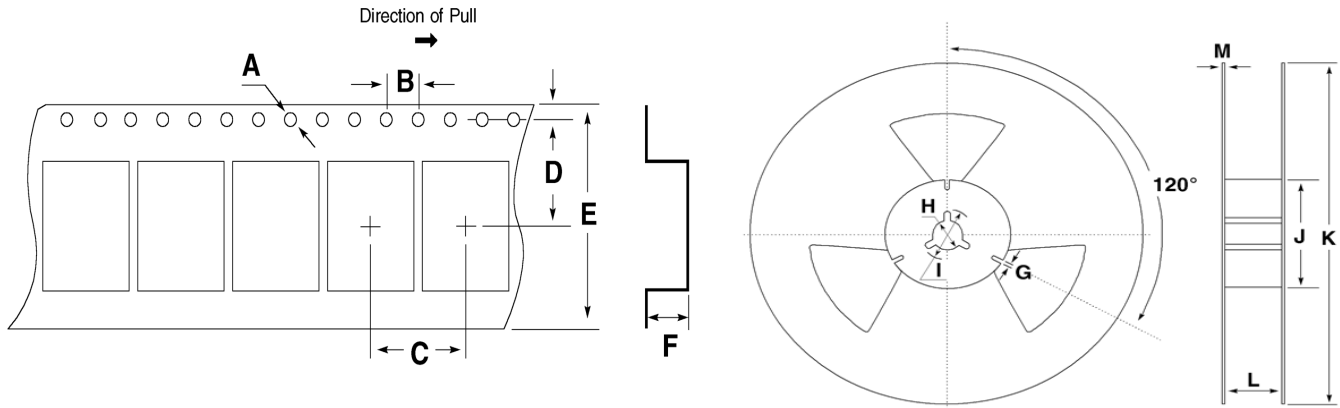
(Former HC49SSDLF)

13.5mm X 5.0mm

Resistance Weld SMD Crystal



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 C9SD¹

Sample PN: FC9SDCBMF25.0-T1

F	C9SD	C	B	M	F	25.0	-T1
Fox	Model Number	Tolerance	Stability	Load Capacitance²	Operating Temperature	Frequency (MHz)	Values Added Options
		B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM	A = ±100 PPM B = ±50 PPM C = ±30 PPM D = ±25 PPM E = ±20 PPM F = ±15 PPM H = ±10 PPM L = ±5 PPM	A = Series E = 10pF G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF	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		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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