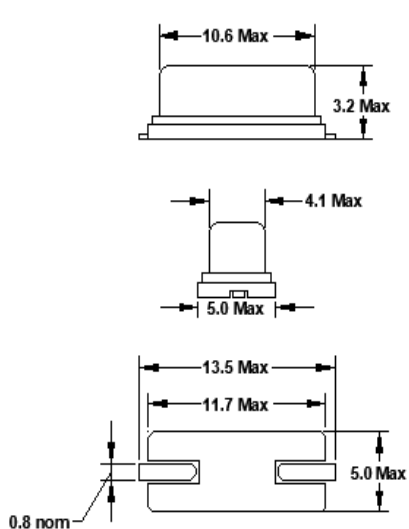


Features

- 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 (0.1 mW typical)
Aging per year (@ 25°C)	± 3 PPM
Moisture Sensitivity Level (MSL)	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
 Recommended Solder Pad Layout  Dimensions in mm 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
$-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$	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

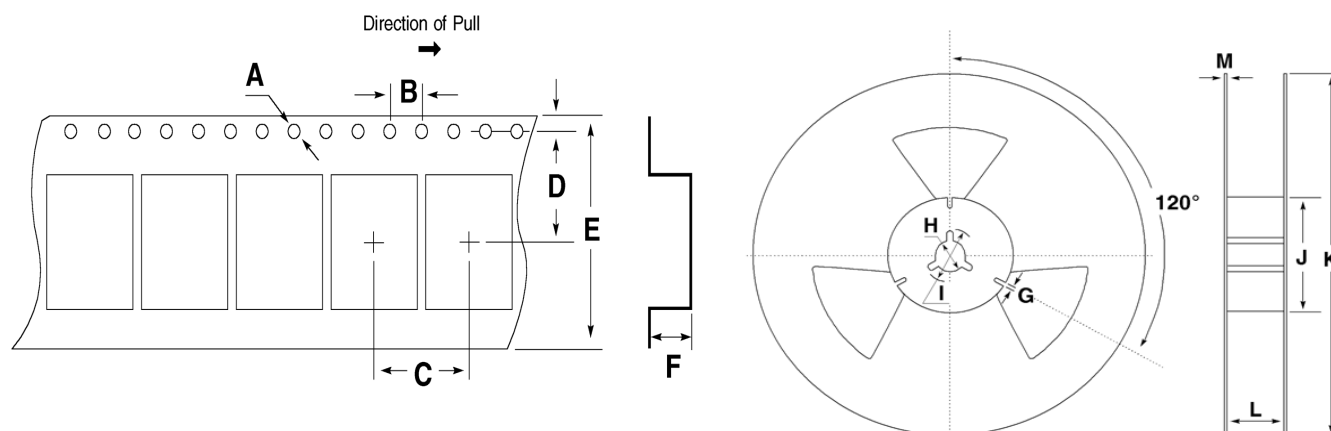
(Former HC49SSDLF)

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 FC9SD¹

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 Capacitance² 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ABRACON:](#)

[FC9SDCBGC20.89375-T1](#) [FC9SDBBMF14.3594-T1](#) [FC9SDCCLM14.7456-T1](#) [FC9SDCCLM25.0-T1](#)
[FC9SDCamm4.0-T1](#) [FC9SDCBEF8.0-T1](#) [FC9SDCCLM26.45125-T1](#) [FC9SDCCQM16.0-T1](#) [FC9SDCCEM12.12187-](#)
[T1](#) [FC9SDCCLF8.0-T1](#) [FC9SDBBKf4.055-T1](#) [FC9SDCBMM8.0-T1](#) [FC9SDCCLM11.0592-T1](#) [FC9SDFFQF4.9152-](#)
[T1](#)