

Resistance Weld SMD Crystal C9SD (former HC49SSDLF)

DATASHEET

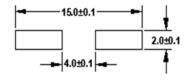
- Tolerances down to ±10ppm
- Stabilities down to ±5ppm
- Temperature Ranges as wide as -55°C to +125°C

• SPECIFICATIONS					
PARAMETERS	MAX (unless otherwise noted)				
Frequency Range	4.000 ~ 80.000 MHz				
Frequency Tolerance @ 25°C	(see options on page 2)				
Frequency Stability, ref @ 25°C	(see options below)				
Temperature Range					
Operating (TOPR)	(see options below)				
Storage (Tstg)	-55°C ~ +125°C				
Shunt Capacitance (Co)	7pF				
Load Capacitance (CL)	(see options on page 2)				
Drive Level	0.5 mW (0.1 mW typical)				
Aging per year	±3 PPM				
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2				
Moisture Sensitivity Level (MSL)	1				
Termination Finish:	Sn/Ag3/Cu0.5				
Seal Method	Resistance Weld				
Lead (Pb) Free	Yes				
RoHS Compliant	Yes - No Exemptions				

3.2	Max
4.1 Max	ι
13.5 Max	
11.7 Max - 5	.0 Max

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

Recommended Solder Pad Layout



Dimensions are in millimeters.

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*

Stability Temperature	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
-10 to +60°C	0	0	0	0	0	0	0	0
-20 to +70°C	Δ	0	0	0	0	0	0	0
-40 to +85°C	Χ	X	0	0	0	0	0	0
-40 to +105°C	Χ	X	X	X	X	Δ	0	0
-40 to +125°C	X	Х	Х	X	X	X	Δ	0
-55 to +125°C	X	Х	Х	Х	X	X	Δ	0

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

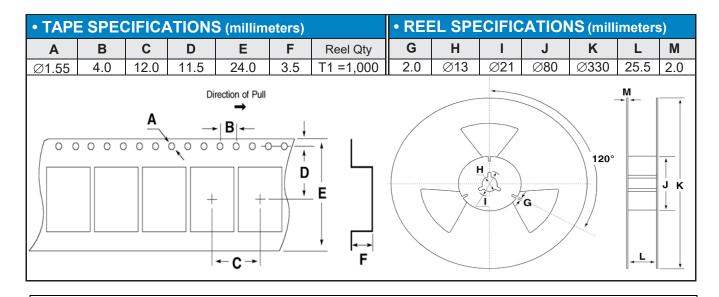
D03	Title / Description: C9SD SERIES STANDARD SPECIFICATIONS			
FÖX	Drawing Number: C9SD-	Size: A		
FOX	Part Number:	Cage: 61429		
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Available Options & Part Identification for Crystal Model C9SD¹ F C9SD C B M F 25.0

F	C9SD	С	В	M	F	25.0
<u>FOX</u>	Model <u>Number</u>	Tolerance B = ±50ppm C = ±30ppm D = ±25ppm E = ±20ppm F = ±15ppm H = ±10ppm	Stability A = ±100ppm B = ±50ppm C = ±30ppm D = ±25ppm E = ±20ppm F = ±15ppm H = ±10ppm L = ±5ppm	Load Capacitance ² A = Series E = 10pF G = 12pF J = 15pF K =16pF L = 18pF M = 20pF	Operating <u>Temperature</u> 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)

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

²Listed load capacitances represent the most commonly used. Other load capacitances are available. Contact Fox Technical Support for assistance



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Title / Description: C9SD SERIES STANDARD SPECIFICATIONS

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For datasheet type definitions and a glossary of common terms, visit http://www.foxonline.com/tgcrystals.html.



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