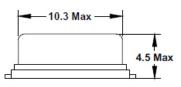


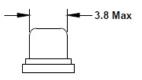
- Tolerances down to 10ppm
- Stabilities down to 5ppm
- Temperature Ranges as wide as -55°C to +125°C

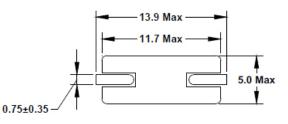
SPECIFICATION	NS	
PARAMETERS		MAX (unless otherwise noted)
Frequency Range		3.200 ~ 80.000 MHz
Frequency Tolerance	@ 25°C	(see options on page 2)
Frequency Stability, r	ef @ 25⁰C	(see options below)
Temperature Range		
Operating	(Topr)	(see options below)
Storage	(TSTG)	-55⁰C ~ +125⁰C
Shunt Capacitance	(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	Гетр / Time	260°C / 10 Seconds
Moisture Sensitivity L	evel (MSL)	1
Termination Finish:		Sn/3.0Ag/0.5Cu
Seal Method		Resistance Weld
Lead (Pb) Free		Yes
RoHS Compliant		No Exemptions



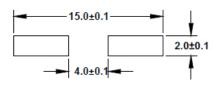
Frequency Range (MHz)	Operating Mode	Max ESR Ω
3.200 ~ 3.500	Fundamental	300
>3.500 ~ 4.000	Fundamental	200
>4.000 ~ 5.000	Fundamental	150
>5.000 ~ 6.000	Fundamental	120
>6.000 ~ 7.000	Fundamental	100
>7.000 ~ 9.000	Fundamental	80
>9.000 ~ 13.000	Fundamental	60
>13.000 ~ 20.000	Fundamental	40
>20.000 ~ 40.000	Fundamental	30
24.000 ~ 70.000	3rd OT	100
>70.000 ~ 80.000	3rd OT	70







Recommended HC49SD 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*

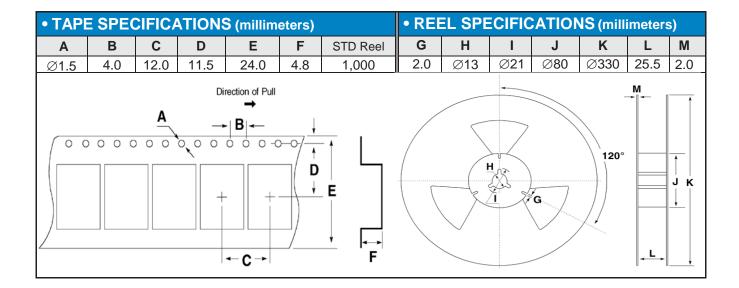
Stability Tomporatura	±5 PPM	±10 PPM		±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
Stability Temperature	±3 FFIVI	±10 PPIVI	±15 PPIVI				±30 PPIVI	±100 PPIVI
-10 to +60°C	0	0	0	0	0	0	0	0
-20 to +70°C	Δ	0	0	0	0	0	0	0
-40 to +85°C	Х	Х	0	0	0	0	0	0
-40 to +105°C	Х	Х	Х	Х	Х	Δ	0	0
-40 to +125°C	Х	Х	Х	Х	Х	Х	Δ	0
-55 to +125°C	Х	Х	Х	Х	Х	Х	Δ	0

Key: O=Available, X=Not Available, Δ =Consult Fox Technical Support

* Does Not imply a stocked part

24	Title / Description: C4SD SERIES STANDARD SPECIFICATIONS		
FÖX	Drawing Number: 10095	Size: A	
FOX	Part Number:		Cage: 61429
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	Available Op		Identificatio SD <u>C B M</u>	•	II Model C4SI)*
F	C4SD	С	В	М	F	25.0
FOX	Model <u>Number</u>	Tolerance B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm	Stability A=100ppm B=50ppm C=30ppm E=20ppm F=15ppm H=10ppm L=5ppm	Load <u>Capacitance</u> A=Series E=10pF G=12pF J=15pF K=16pF L=18pF M=20pF N=22pF Q=30pF R=32pF	Operating <u>Temperature</u> D=-10 to +60C F=-20 to +70C M=-40 to +85C P=-40 to +105C I=-40 to +125C T=-55 to +125C	Frequency <u>(MHz)</u>

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

XA.	Title / Description: C4SD SERIES STANDARD SPECIFICATIONS		
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FOX	Part Number:		Cage: 61429
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HC49SDLF Stand	dard Crystals				
Part Number	Frequency	Tolerance	Stability	Temp Range	CL
FOXSDLF/036S	3.579545	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	18pF
FOXSDLF/0368-20	3.686400	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/040	4.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/041	4.194304	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/049-20	4.915200	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/060-20	6.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/073-20	7.372800	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/080-20	8.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/081-20	8.192000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/100-20	10.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/115-20	11.059200	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/120-20	12.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/128-20	12.288000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/143-20	14.318180	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/147-20	14.745600	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/160-20	16.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/200-20	20.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/221-20	22.118400	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/240F-20	24.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/245F-20	24.576000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/250F-20	25.000000	+/- 30 ppm	+/- 50 ppm	-20 to +70 C	20pF
FOXSDLF/0368R-20	3.686400	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/040R	4.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/060R-20	6.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/073R-20	7.372800	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/080R-20	8.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/100R-20	10.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/115R-20	11.059200	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/120R-20	12.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/143R-20	14.318180	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/160R-20	16.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/200R-20	20.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/240FR-20	24.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/245FR-20	24.576000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF
FOXSDLF/250FR-20	25.000000	+/- 30 ppm	+/- 50 ppm	-40 to +85 C	20pF

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FAX	Drawing Number: 10095	Size: A		
FOX	Part Number:		Cage: 61429	
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13.9x5mm SMD Crystal

(former HC49SDLF) DATASHEET



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