



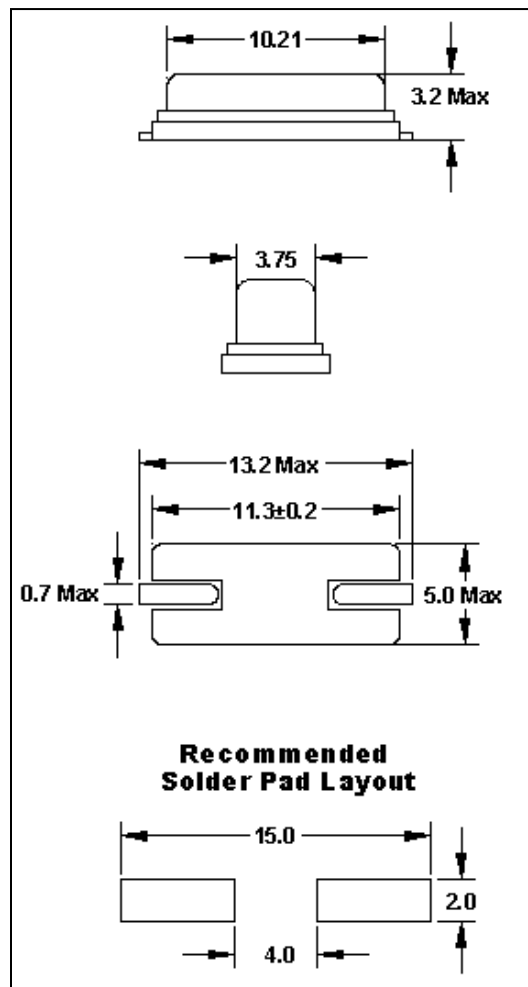
Resistance Weld SMD Crystal

C9SD
(former HC49SSDLF)
DATASHEET

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- Tolerances down to 10 PPM
- Stabilities down to 5 PPM

• C9SD STANDARD 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 Over Operating Temp Range		(See options on page 2)
Temperature Range		
Operating (TOPR)		(See options below)
Storage (TSTG)		-40°C ~ +85°C
Shunt Capacitance (Co)		7pF
Load Capacitance (CL)		(See options on page 2)
Drive Level		0.5 mW
Aging per year		±5 PPM
Maximum Soldering Temp / Time		260°C / 10 Seconds
Moisture Sensitivity Level (MSL)		1
Termination Finish		Sn/3.0Ag/0.5Cu
Seam Method		Resistance Weld
Lead (Pb) Free		Yes
RoHS Complaint		Yes



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
-10°C to +60°C	O	O	O	O	O	O	O
-20°C to +70°C	X	O	O	O	O	O	O
-40°C to +85°C	X	X	O	O	O	O	O
-40°C to +105°C	X	X	X	X	X	X	O

Key: O=Available, X=Not Available,

*Does not imply a stocked part.



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Title / Description: C9SD STANDARD SPECIFICATIONS

Drawing Number: 101158

Part Number:

Draftsperson: CMR

Size: A

Cage: 61429

Approved: RB

Revision Date: 04/28/2017



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• TAPE SPECIFICATIONS (millimeters)							• REEL SPECIFICATIONS (millimeters)						
A	B	C	D	E	F	Reel QTY	G	H	I	J	K	L	M
Ø1.5	4.0	12.0	11.5	24.0	3.5	1,000	2.0	Ø13	Ø21	Ø80	Ø330	25.5	2.0

Direction of Pull →

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Available Options & Part Identification for SMD Crystal C9SD*

F C9SD C B M F 10.0

F	C9SD	C	B	M	F	10.0
FOX	Model Number	Tolerance B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm	Stability B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm L=5ppm	Load Capacitance A=Series E=10pF G=12pF K=16pF L=18pF M=20pF Q=30pF	Operating Temperature D=-10 to +60C F=-20 to +70C M=-40 to +85C P=-40 to +105C	Frequency (MHz)

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



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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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