

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Resistance Weld SMD Crystal

C4SD (former HC49SDLF) DATASHEET

Page 1 of 2

FEATURES

OPTIONS

- Fundamental to 40 MHz
- 3.2mm Height Max (C9SD)
- Tape and Reel (1,000 pcs. STD)

• SPECIFICATIONS								
PARAMETERS		MAX (unless otherwise noted)						
Frequency Range		3.200 ~ 80.000 MHz						
Frequency Tolerance @ 25°C		$\pm 10 \sim 50 \text{ PPM}^1$ (see options on page 2)						
Frequency Stability, r	ef @ 25°C	±5 ~ 100 PPM (see options below)						
Temperature Range								
Operating	(TOPR)	-55°C ~ +125°C (see options below)						
Storage	(Tstg)	-55°C ~ +125°C						
Shunt Capacitance	(Co)	7pF						
Load Capacitance (CL)		10 pF ~ Series						
		(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						
Moisture Sensitivity Level (MSL)		1						
Termination Finish:		Sn/Ag/Cu						
Seal Method		Resistance Weld						
Lead (Pb) Free		Yes						
RoHS Compliant		No Exemptions						

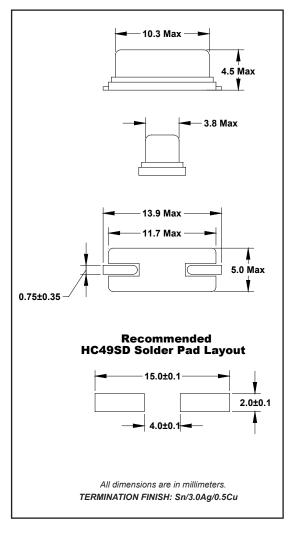
¹ Crystal has a ±30ppm tolerance specification for all standard part numbers.

Note: Dimensional drawing is for reference to critical specifications defined by size measure¬ments.

Certain non-critical visual attributes, such as side castellations, etc. may vary.

All specifications subject to change without notice.

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	
27.000 ~ 70.000	3rd OT	100	
70.000+ ~ 80.000	3rd OT	80	



Other Stabilities Available

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

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

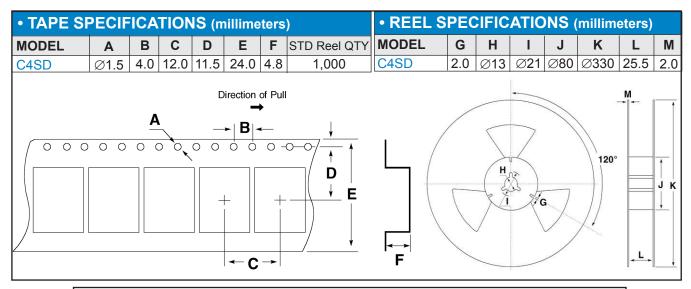
Revision: November 15, 2016

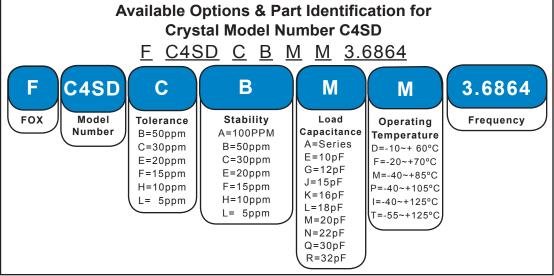


Resistance Weld SMD Crystal

C4SD (former HC49SDLF) DATASHEET

Page 1 of 2







Corporate Headquarters

5570 Enterprise Parkway Fort Myers, FL 33905 http://www.FOXONLINE.com

Sales

1-888-GET-2-FOX (1-888-438-2369) or 1-239-693-0099

http://www.FOXONLINE.com/repdisty

Tech Support

http://www.FOXONLINE.com/email

PRODUCT USE: Fox Electronics reserves the right to modify the products and/or specifications described herein at any time and at Fox Electronics' sole discretion. All information in this document, including descriptions of product features and performance, is subject to change without notice. Performance specifications and the operating parameters of the described products are determined in the independent state and are not guaranteed to perform the same way when installed in customer products. The information contained herein is provided without representation or warranty of any kind, whether express or implied, including, but not limited to, the suitability of Fox Electronics' products for any particular purpose, an implied warranty of merchantability, or non-infringement of the intellectual property rights of others. This document is presented only as a guide and does not convey any license under intellectual property rights of Fox Electronics or any third parties.

Fox Electronics' products are not intended for use in applications involving extreme environmental conditions or in life support systems or similar devices where the failure or malfunction of a Fox Electronics product can be reasonably expected to significantly affect the health or safety of users. Anyone using a Fox Electronics product in such a manner does so at their own risk, absent an express, written agreement by Fox Electronics.

Fox Electronics and the Fox logo are registered trademarks of Fox Electronics. Product specification is subject to change without notice. Other trademarks and service marks used herein, including protected names, logos and designs, are the property of Fox Electronics or their respective third party owners. For datasheet type definitions and a glossary of common terms, visit http://www.foxonline.com/tgcrystals.html .

Revision: November 15, 2016