(Former HC49SDLF)

## 11.7mm x 5.0mm

# **Resistance Weld SMD Crystal**

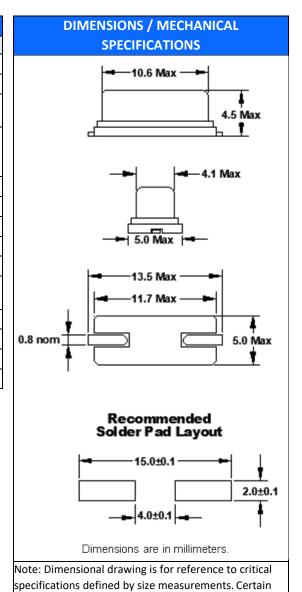


#### **Features**

- Tolerances down to ±10 ppm
- Stabilities down to ±5 ppm
- Operating Temperature Range to -55°C ~ +125°C

STANDARD SPECIFICATIONS						
PARAMETERS	MAX (Unless otherwise noted)					
Frequency Range	3.200 ~ 80.000 MHz					
Frequency Tolerance @ 25°C	(See options below)					
Frequency Stability, ref 25°C						
Over Operating Temp Range	(See options below)					
Temperature Range						
Operating (T <sub>OPR</sub> )	(See options below)					
Storage (T <sub>STG</sub> )	-55°C ~ +125°C					
Shunt Capacitance (Co)	7 pF					
Load Capacitance (C <sub>L</sub> )	(See options below)					
Drive Level	0.5mW (100μW Typical)					
Aging per year (@ 25°C)	±3 PPM					
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2					
Moisture Sensitivity Level (MSL) per	1					
J-STD-033						
Termination Finish	Sn/Ag3.0/Cu0.5					
Seal Method	Resistance Weld					
Lead (Pb) Free	Yes					
RoHS Compliant	Yes-No Exemptions					

Frequency Range (MHz)	<b>Operating Mode</b>	$\text{Max ESR }\Omega$
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



non-critical visual attributes, such as side castellations,

etc. may vary.



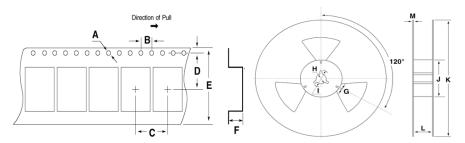
## 11.7mm x 5.0mm

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AVAILABLE OPERATING TEMPERATURES AND STABILITIES*									
<b>Operating Temperature</b>	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM	
-10°C to+60°C	0	0	0	0	0	0	0	0	
-20°C to +70°C	Δ	0	0	0	0	0	0	0	
-40°C to +85°C	Х	Х	0	0	0	0	0	0	
-40°C to+105°C	Χ	Х	Χ	Χ	Х	Δ	0	0	
-40°C to+125°C	Х	Х	Х	Х	Х	Х	Δ	0	
-55°C to+125°C	Х	Х	Х	Х	Х	Х	Δ	0	
Key: $O = Available$ $X = Not Available$ $A = Consult Fox Technical Support *Does not imply a stocked part$									

TAPE SPECIFICATIONS (mm)						RE	EEL SPE	CIFICAT	IONS (m	m)			
Α	В	С	D	Е	F	REEL QTY	G	Н	1	J	К	٦	M
ø1.55	4.0	12.0	11.5	24.0	4.8	-T1 = 1,000	2.0	Ø13	Ø21	Ø80	Ø330	25.5	2.0



Available Options & Part Identification for Crystal Model C4SD <sup>1</sup> Sample PN: <u>FC4SDCBMF25.0-T1</u>											
F	C4SD	C B M F 25.0 -T1									
Fox	<u>Model</u> <u>Number</u>	Tolerance B = ±50ppm C = ±30ppm D = ±25ppm E = ±20ppm F = ±15ppm H = ±10ppm	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 Capacitance <sup>2</sup> A = Series E = 10pF G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF	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				

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

<sup>2</sup> 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	