

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!



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PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	20.000000 MHz
PRODUCT TYPE	TYPE GC 49S SMD QUARTZ CRYSTAL
SPEC. NO. (P/N)	GC2000026
CUSTOMER P/N	
ISSUE DATE	May 10, 2011
VERSION	С

APPROVED	PREPARED	QA
Brenda	Niklai Lu	Dony Jang
APPROVED BY	APPROVED BY CUSTOMER:	
Please return one copy w	vith approval to PSE-TW	

PSE Technology Corporation

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http://www.saronix-ecera.com.tw

*RoHS Compliant

*HF-Halogen Free

*REACH Compliant



*** A company of PERICOM Semiconductor Corporation ***

VER. C 10-May-11

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Aug.8,2008			Initial Release	
В	Mar.23,2010			Revise Format	
С	May.10,2011			Updated Suggested IR Reflow Profile & Format & Changed Logo Added DLD; RLD2; FDLD	

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ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	20.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	20	pF	
Calibration Tolerance	FL	±30	ppm	at 25°C±3°C
Operating Temperature Range	TR	-20 to +70	°C	
Frequency Stability (Frequency Deviation over the Operating Temperature Range)	F/T	±30	ppm	Reference to the Frequency at 25°C
Operating Drive Level		100	μW	
Maximum Drive Level		500	μW	
Equivalent Series Resistance	ESR	30	Ω	Max
Shunt Capacitance	C0	7	pF	Max
Aging at 25°C		±5	ppm	Max, 1st year
MaxRR-MinRR at Drive Level Dependency Sweep	DLD2	10	Ω	
MaxRR at Drive Level Dependency Sweep	RLD2	30	Ω	
MaxFR-MinFR at Drive Level dependency Sweep	FDLD	10	ppm	
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	ΜΩ	Min

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RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

a) FINE LEAK TEST: JESD22-A109 (Condition 1A)

b) GROSS LEAK TEST: JESD22-A109 (Condition C)

c) MOISTURE RESISTANCE: JESD22-A113

d) SHOCK: JESD22-B104 (Condition B)

e) SOLDERABILITY: (RoHS version): J-STD-002

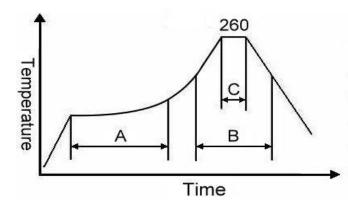
f) VIBRATION: JESD22-B103

g) SOLVENT RESISTANCE: JESD22-B107

h) RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

SUGGESTED IR REFLOW PROFILE

*As per IPC-JEDEC J-STD-020D



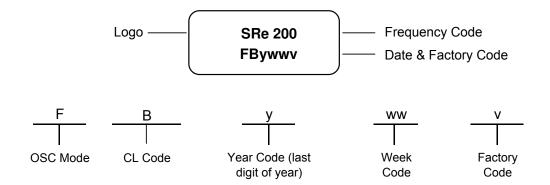
Note:					
	Stage	Temperature	Time		
Α	Preheat	150~200°C	60~120 Sec		
В	Primary Heat	217°C	60~150 Sec		
С	Peak	260°C	10 Sec		

For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

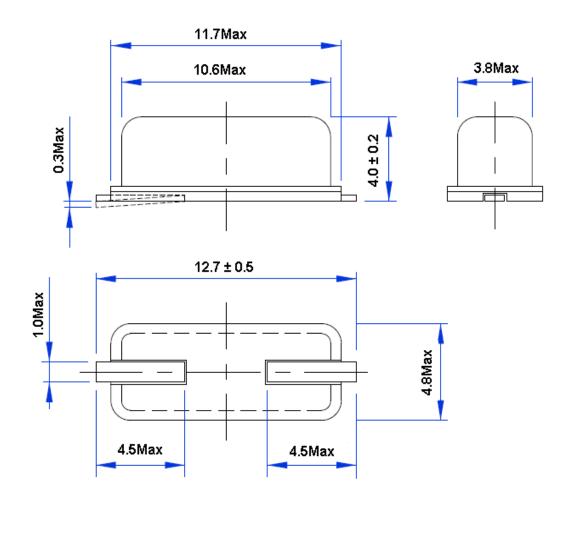


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MARKING



MECHANICAL DRAWINGS (Scale: None. Dimensions are in mm.)





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