

# **PSE Technology Corporation**

## SPECIFICATION FOR APPROVAL

CUSTOMER			
NOMINAL FREQUENCY	25.000000 MHz		
PRODUCT TYPE	TYPE GC 49S SMD QUARTZ CRYSTAL		
SPEC. NO. ( P/N )	GC2500003		
CUSTOMER P/N			
ISSUE DATE	January 13, 2011		
VERSION	E		

APPROVED	PREPARED	QA	
Brenda	Vikki Lu	lillin	
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 \*\*\*

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## **VERSION HISTORY**

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Mar.6,2008			Initial Release	
В	Jul.23,2008			Revise Format	
С	Feb.12,2009			Update format	
D	Nov.22,2010			Changed Logo	
E	Jan.13,2011			Revise Format	



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#### **ELECTRICAL SPECIFICATIONS**

ltem	Symbol	<b>Specifications</b>	Units	Notes
Nominal Frequency	Fn	25.000000	MHz	
Mode of Oscillation	МО	AT Cut-Fundamental		
Calibration Load Capacitance	CL	18	pF	
Calibration Tolerance	FL	±30	ppm	at 25°C±3°C
Operating Temperature Range	TR	-10 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	
Equivalent Series Resistance	ESR	40	Ω	Max
Shunt Capacitance	C0	5	pF	Max
Aging at 25°C		±3	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	МΩ	Min

\* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).



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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

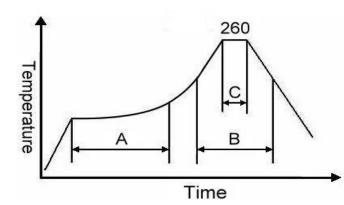
g) SOLVENT RESISTANCE: JESD22-B107

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

Note:

#### SUGGESTED IR REFLOW PROFILE

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



. 2								
		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				

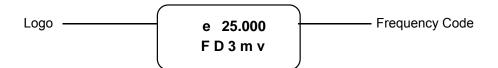
For soldering reflow profile and reliability test ratings go to: <a href="http://www.pericom.com/pdf/sre/reflow.pdf">http://www.pericom.com/pdf/sre/reflow.pdf</a>

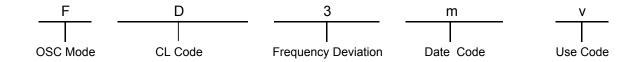
PERICOM: SaRonix-eCera

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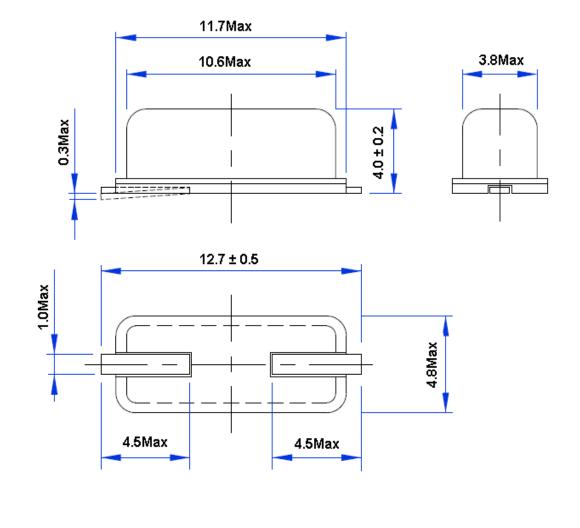
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#### **MARKING**



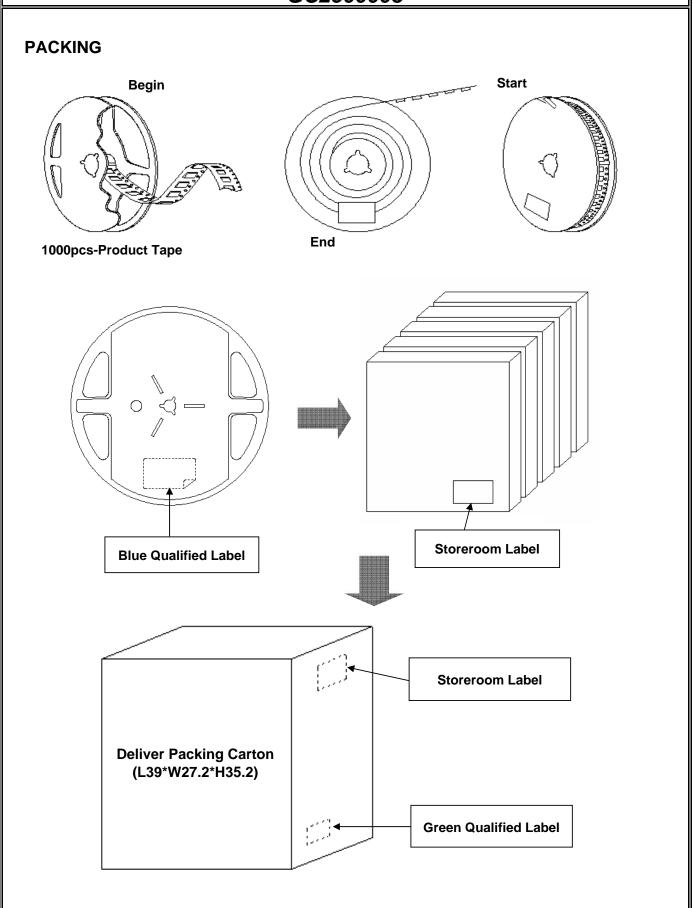


### MECHANICAL DRAWINGS (Scale: None. Dimensions are in mm.)





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