imall

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





PSE Technology Corporation SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	20.000000 MHz
PRODUCT TYPE	TYPE GC 49S SMD QUARTZ CRYSTAL
PART NUMBER	GC2000039
CUSTOMER P/N	
ISSUE DATE	October 30, 2013
VERSION	Α

APPROVED	PREPARED	QA					
Brenda	Nithi Lu	Beday vi					
APPROVED BY CUSTOMER							
Please return one copy with approval to PSE-TW							

PSE Technology Corporation

No.2, Tzu-Chiang 5th Rd., Chung Li Industrial Park, Chung Li City, Taoyuan County, Taiwan (R.O.C.) TEL:886-3-451-8888 FAX:886-3-461-3865 http://www.saronix-ecera.com.tw/

*RoHS Compliant *HF-Halogen Free

*REACH Compliant

A Company of PERICOM Semiconductor Corporation

VER.A 30-OCT-13

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes			
А	Oct. 30, 2013			Initial Release				



VER.A 30-OCT-13

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	20.000000	MHz	
Mode of Oscillation	МО	AT Cut-Fundamental		
Calibration Load Capacitance	CL	16	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.
MaxRR-MinRR at Drive Level Dependency Sweep	DLD2	10	Ω	Max.
MaxRR at Drive Level Dependency Sweep	RLD2	30	Ω	Max.
MaxFR-MinFR at Drive Level dependency Sweep	FDLD	10	ppm	Max.
Shunt Capacitance	C0	7	pF	Max.
Aging at 25°C		± 5	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance	1	500	MΩ	Min



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

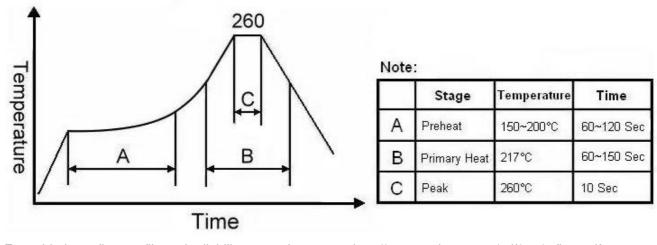
f)VIBRATION: JESD22-B103

g)SOLVENT RESISTANCE: JESD22-B107

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

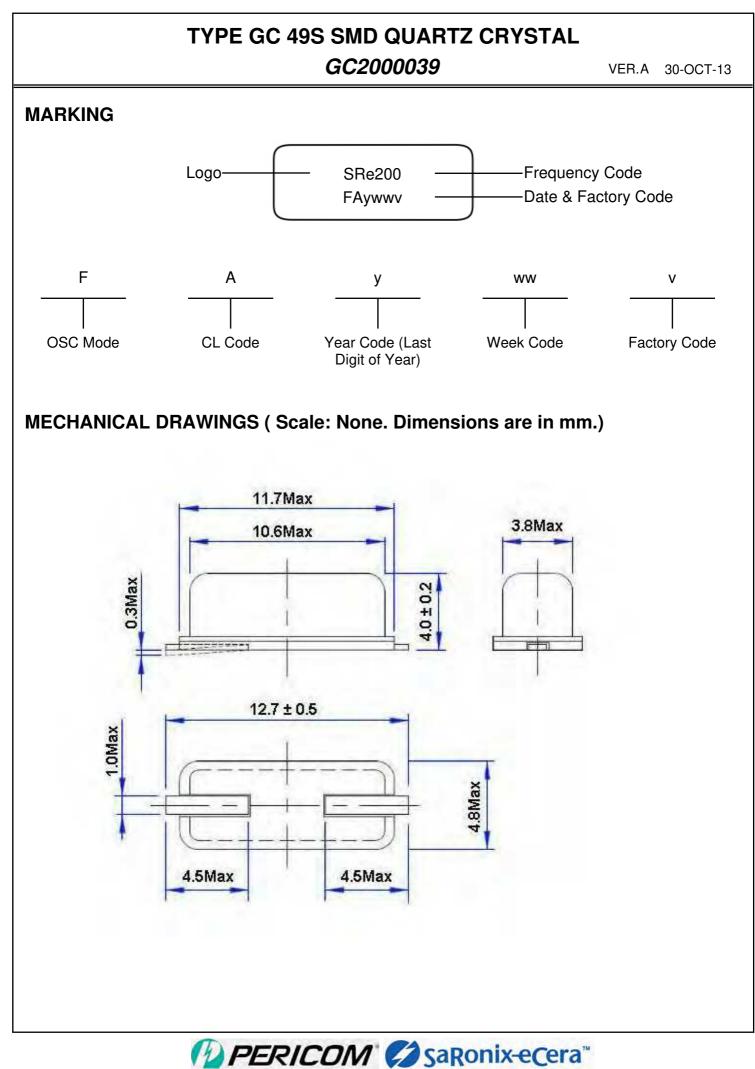
SUGGESTED IR REFLOW PROFILE

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



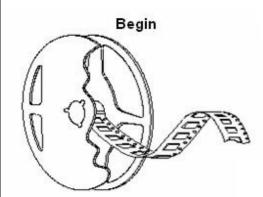
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

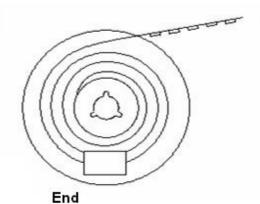


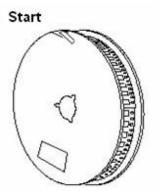


VER.A 30-OCT-13

PACKING







1000pcs-Product Tape

