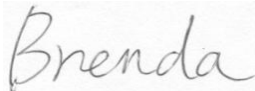
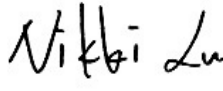
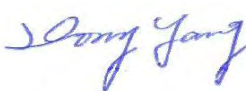


PSE Technology Corporation

SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	4.000000 MHz
PRODUCT TYPE	TYPE GB 49S QUARTZ CRYSTAL
PART NUMBER	GB0400039
CUSTOMER P/N	
ISSUE DATE	June 13, 2016
VERSION	B

APPROVED	PREPARED	QA
		
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.)
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 FAX:886-3-461-3865
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*RoHS Compliant
 *HF-Halogen Free
 *REACH Compliant

A Company of PERICOM Semiconductor Corporation

TYPE GB 49S QUARTZ CRYSTAL

GB0400039

VER.B 13-JUN-16

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
A	Aug. 16, 2013			Initial Release	
B	Jun. 13, 2016			Updated packing	

TYPE GB 49S QUARTZ CRYSTAL

GB0400039

VER.B 13-JUN-16

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	4.000000	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	150	Ω	Max.
Shunt Capacitance	C0	7	pF	Max.
Aging at 25°C		± 5	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	Min

TYPE GB 49S QUARTZ CRYSTAL

GB0400039

VER.B 13-JUN-16

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
A	Preheat	150~200°C	60~120 Sec
B	Primary Heat	217°C	60~150 Sec
C	Peak	260°C	10 Sec

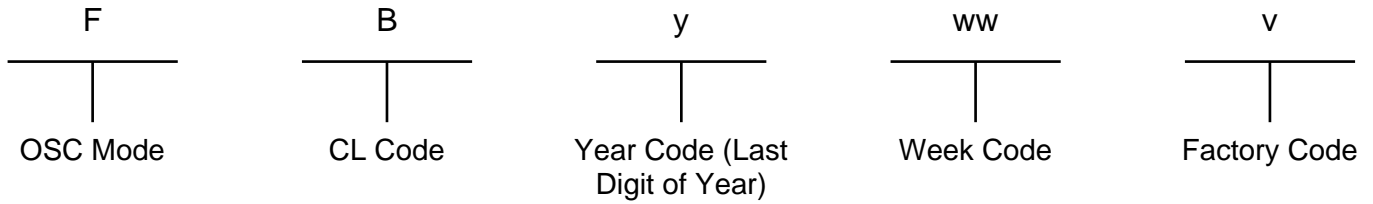
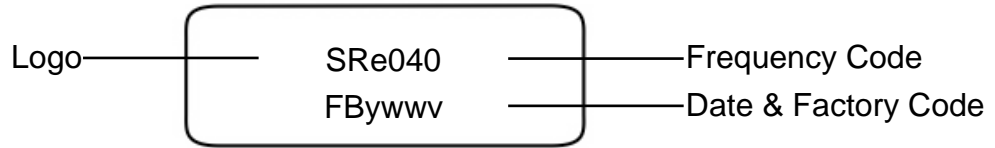
For soldering reflow profile and reliability test ratings go to: <http://www.pericom.com/pdf/sre/reflow.pdf>

TYPE GB 49S QUARTZ CRYSTAL

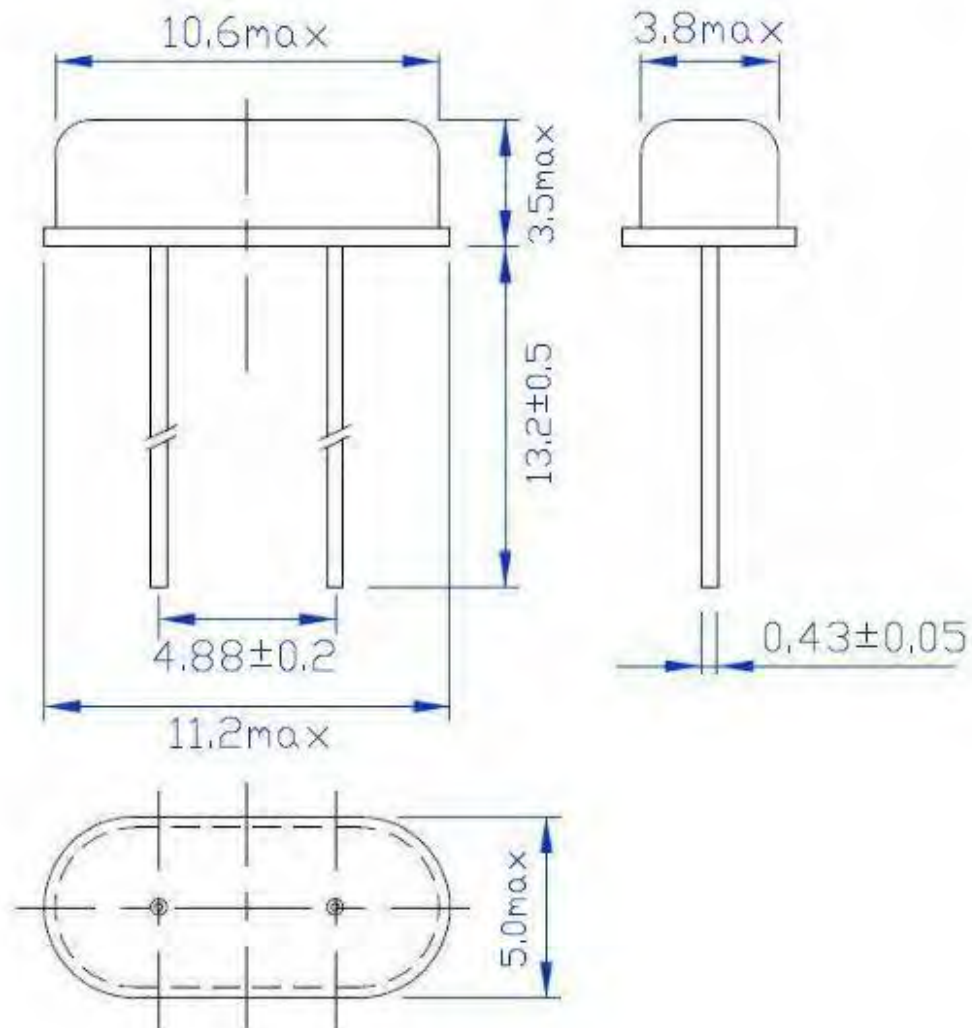
GB0400039

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MARKING



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

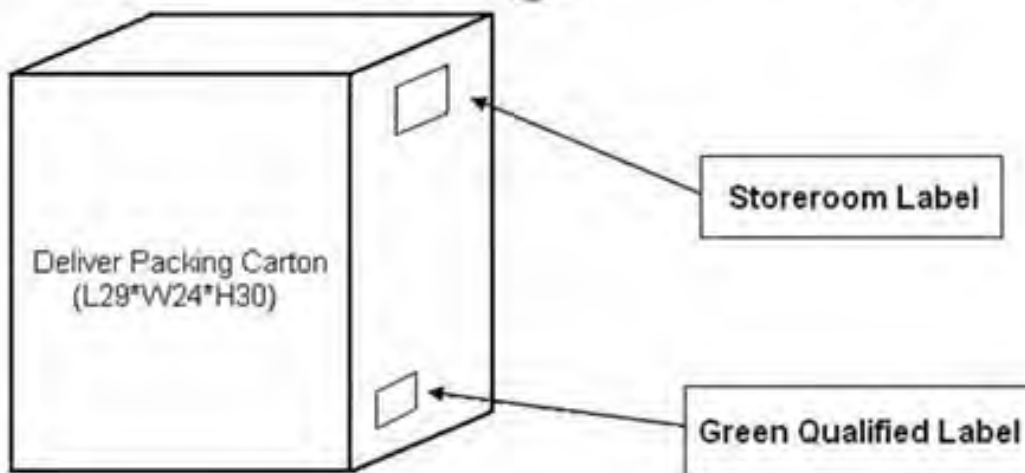
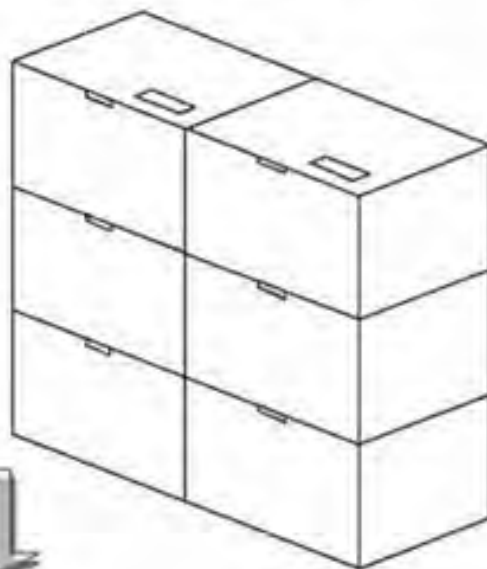
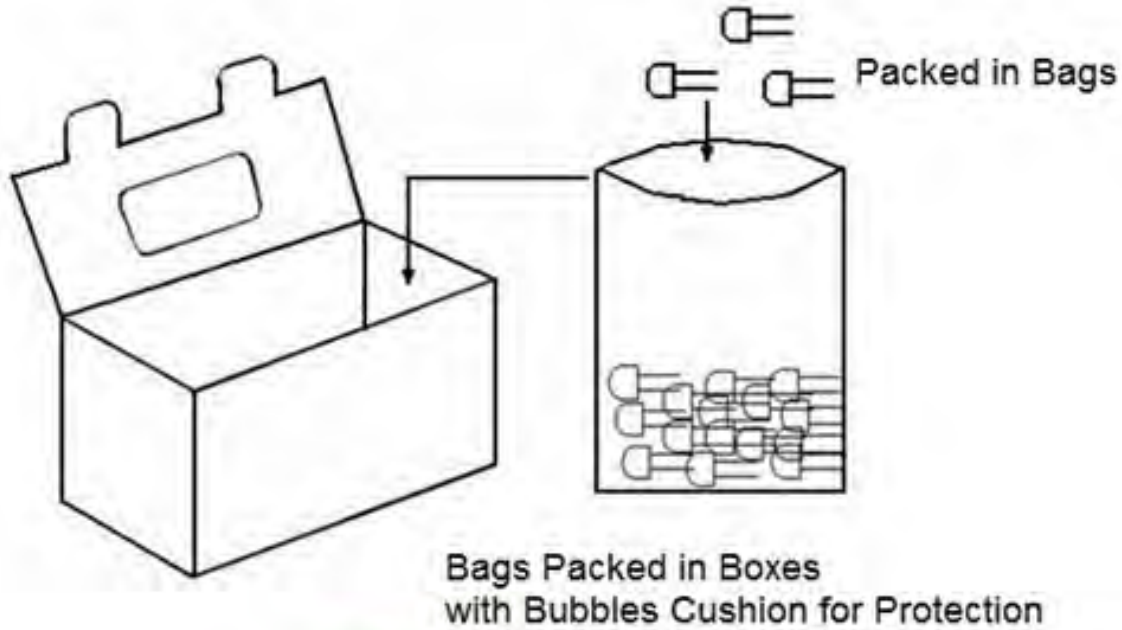


TYPE GB 49S QUARTZ CRYSTAL

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PACKING



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