

# **PSE Technology Corporation** SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	32.000000 MHz
PRODUCT TYPE	TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL
PART NUMBER	FH3200011
CUSTOMER P/N	
ISSUE DATE	December 28, 2011
VERSION	С

APPROVED	PREPARED	QA				
Brenda	Nifbi Lu	Canthen				
APPROVED BY CUSTOMER						
	Please return	n 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/ \*Pb-free

\*RoHS Compliant

- \*HF-Halogen Free
- \*REACH Compliant

#### A Company of PERICOM Semiconductor Corporation

## FH3200011

VER.C 28-DEC-11

#### **VERSION HISTORY**

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Mar. 19, 2010			Initial Release	
В	Oct. 7, 2010			New Logo	
С	Dec. 28, 2011			Updated Suggested IR Reflow Profile & Format	



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## **ELECTRICAL SPECIFICATIONS**

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	32.000000	MHz	
Mode of Oscillation	МО	AT Cut-Fundamental		
Calibration Load Capacitance	CL	10	pF	
Calibration Tolerance	FL	± 10	ppm	at 25°C±3°C
Operating Temperature Range	TR	0 to +70	°C	
Frequency Stability(Frequency Deviation over the Operating Temperature Range)	F/T	± 10	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	60	Ω	Max.
Shunt Capacitance	C0	5	pF	Max.
Aging at 25°C		± 5	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	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

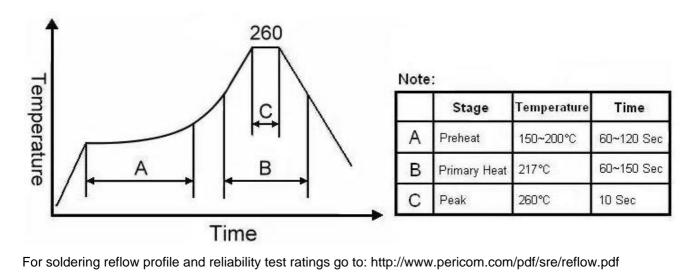
f)VIBRATION: JESD22-B103

g)SOLVENT RESISTANCE: JESD22-B107

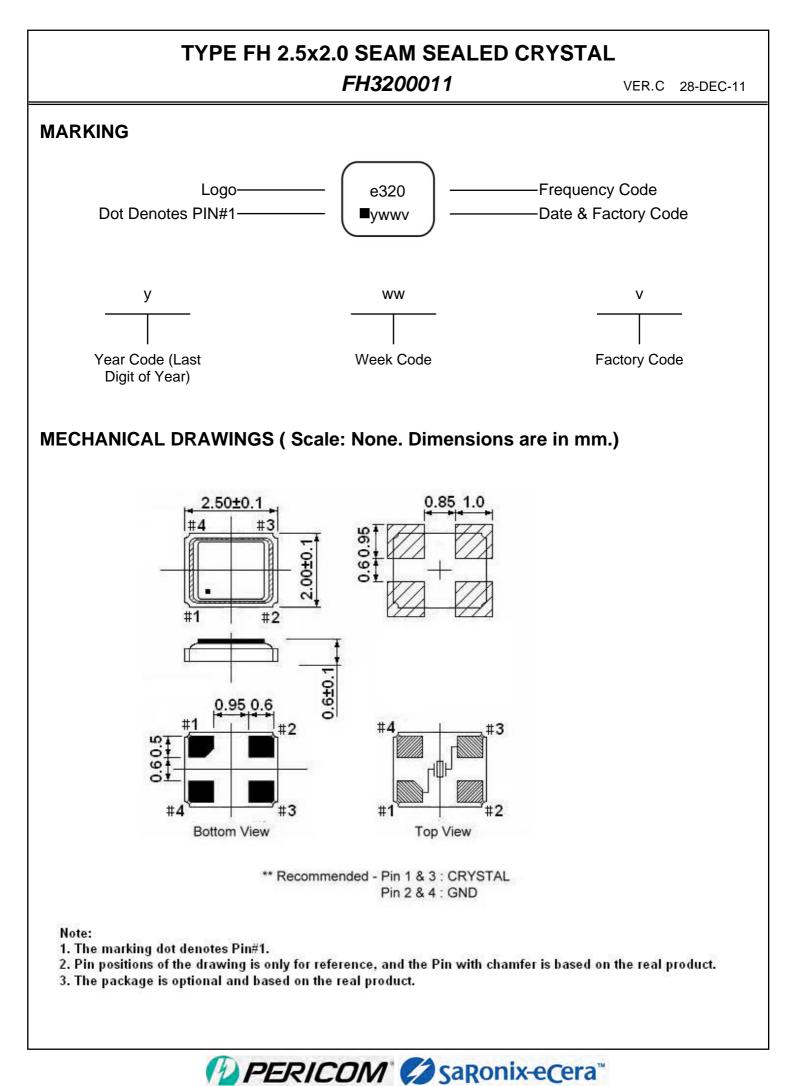
h)RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

## SUGGESTED IR REFLOW PROFILE

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



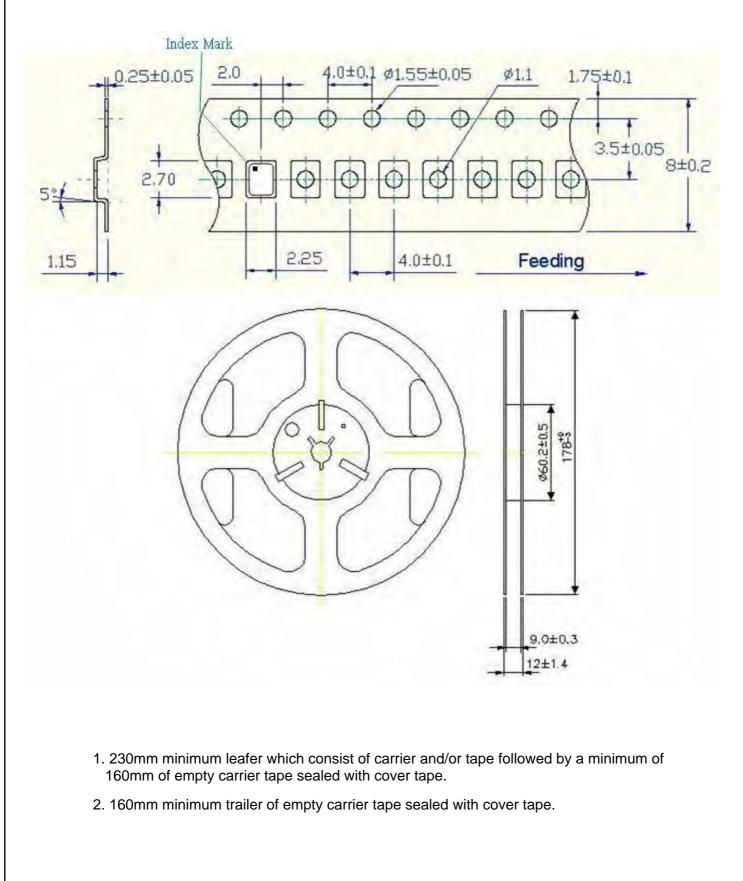




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Tape & Reel





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#### PACKING

