

# PSE Technology Corporation

## SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

40.000000 MHz

PRODUCT TYPE

TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL

PART NUMBER

FH4000074Z


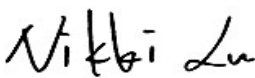
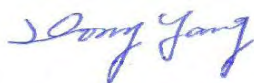
CUSTOMER P/N

ISSUE DATE

March 6, 2015

VERSION

A

APPROVED	PREPARED	QA
		
APPROVED BY CUSTOMER		
<p>Please return one copy with approval to PSE-TW</p>		

### PSE Technology Corporation

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

\*Pb-free

\*RoHS Compliant

\*HF-Halogen Free

\*REACH Compliant

**A Company of PERICOM Semiconductor Corporation**

# TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL

***FH4000074Z***

VER.A 06-MAR-15

## VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
A	Mar. 6, 2015			Initial Release	

# TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL

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VER.A 06-MAR-15

### ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	40.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	8	pF	
Calibration Tolerance	FL	$\pm 10$	ppm	at 25°C $\pm 3^{\circ}\text{C}$
Operating Temperature Range	TR	-30 to +85	°C	
Frequency Stability(Frequency Deviation over the Operating Temperature Range)	F/T	$\pm 10$	ppm	Reference to the Frequency at 25°C
Operating Drive Level		100	$\mu\text{W}$	
Maximum Drive Level		150	$\mu\text{W}$	
Equivalent Series Resistance	ESR	30	$\Omega$	Max.
Equivalent Series Resistance		10	$\Omega$	Typ.
Shunt Capacitance	C0	3	pF	Max.
Aging at 25°C		$\pm 1$	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	M $\Omega$	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).

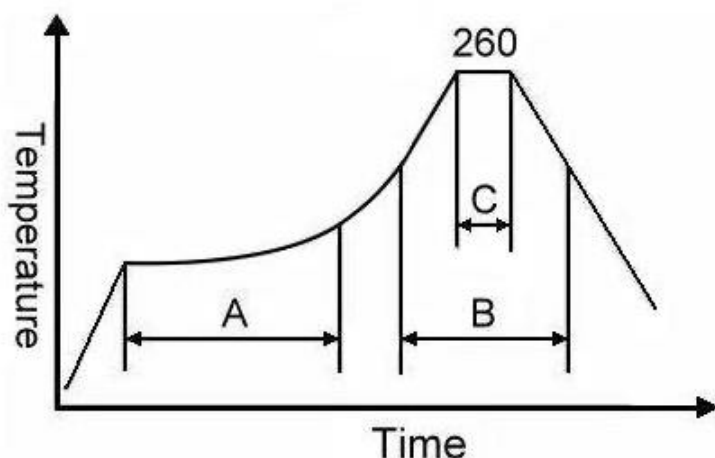
### RELIABILITY SPECIFICATIONS

#### 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

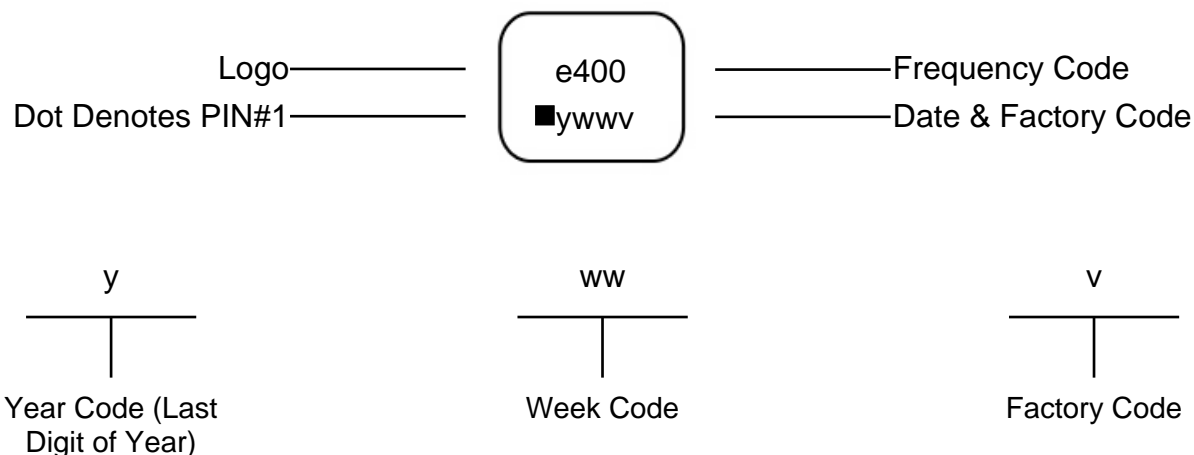
For soldering reflow profile and reliability test ratings go to: <http://www.pericom.com/pdf/sre/reflow.pdf>

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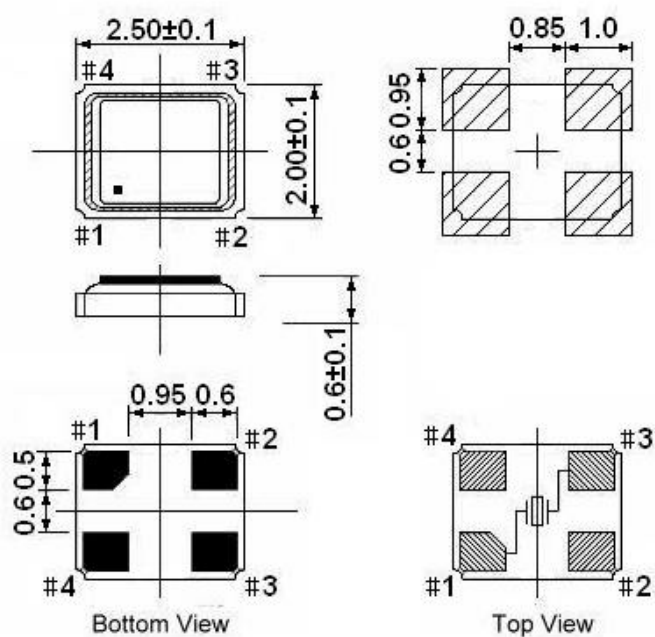
VER.A 06-MAR-15

## MARKING



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

Recommended Land Pattern



\*\* Recommended - Pin 1 & 3 : CRYSTAL  
Pin 2 & 4 : GND

### Notes:

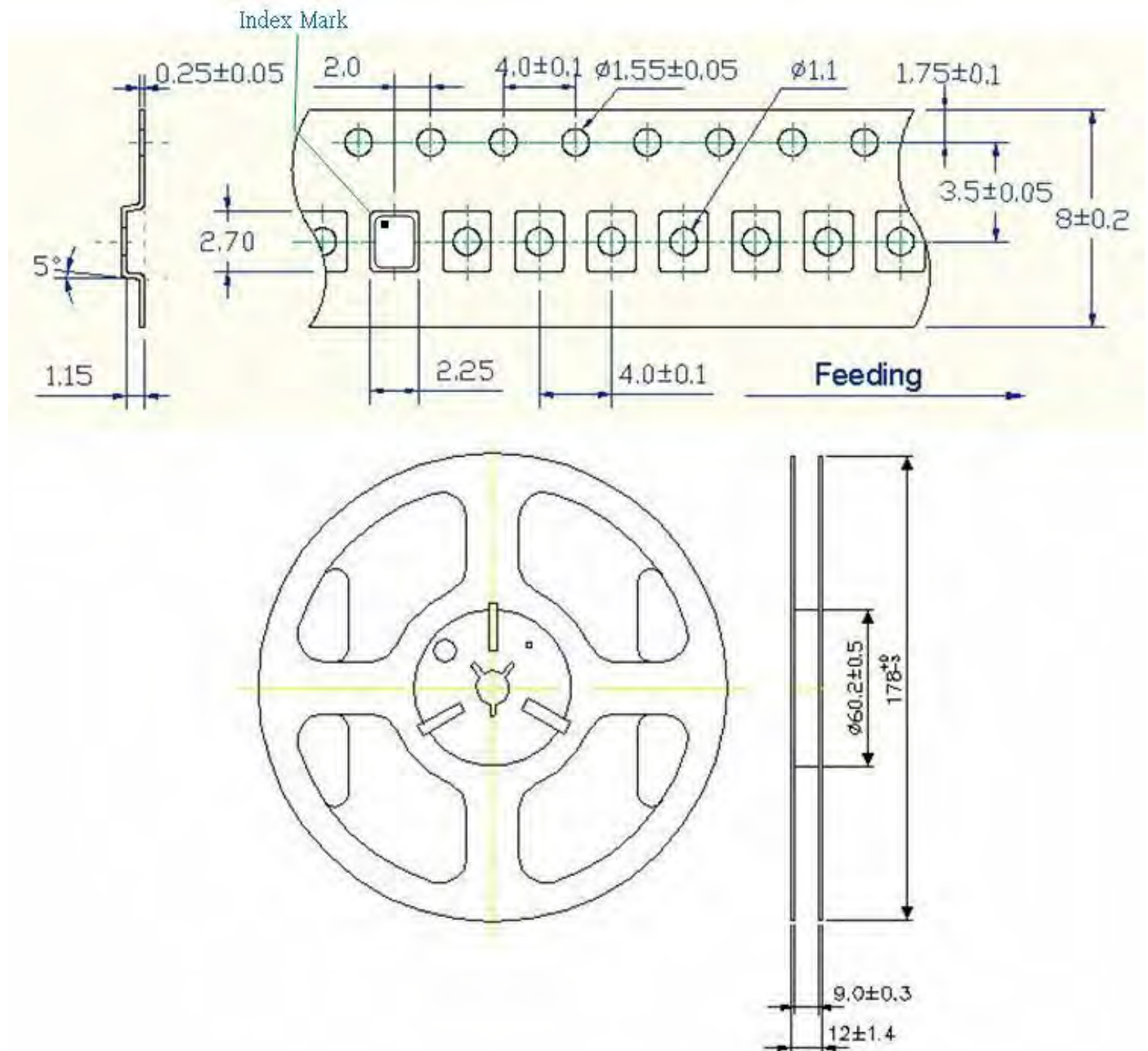
1. Package drawings are for reference only, and the appearances of objects may vary.  
Actual packages are based on the real product.
2. The marking dot denotes Pin#1.
3. The position and shape of the chamfer pin may vary and are based on the real product.

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## Tape & Reel



1. 230mm minimum leader which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.
2. 160mm minimum trailer of empty carrier tape sealed with cover tape.

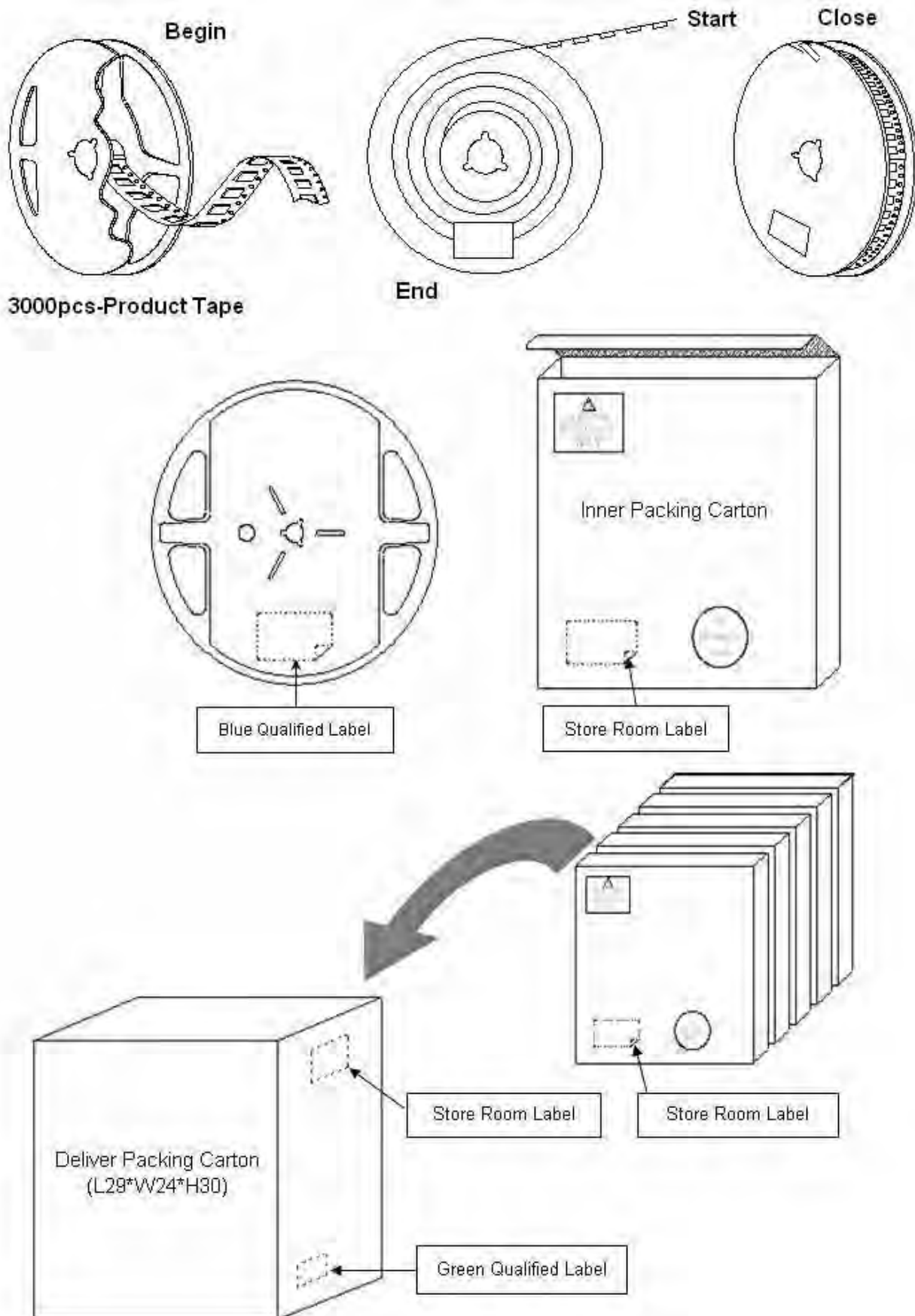


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VER.A 06-MAR-15

### PACKING



# Mouser Electronics

Authorized Distributor

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[FH4000074Z](#)