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
Brenda	Nikki Lu	Jenny Yang
APPROVED BY CUSTOMER		
		Please return one copy with approval to PSE-TW

PSE Technology Corporation

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*Pb-free
*RoHS Compliant
*HF-Halogen Free
*REACH Compliant

A Company of PERICOM Semiconductor Corporation

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

FH4000074Z

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	± 10	ppm	at 25°C±3°C
Operating Temperature Range	TR	-30 to +85	°C	
Frequency Stability(Frequency Deviation over the Operating Temperature Range)	F/T	± 10	ppm	Reference to the Frequency at 25°C
Operating Drive Level		100	μW	
Maximum Drive Level		150	μW	
Equivalent Series Resistance	ESR	30	Ω	Max.
Equivalent Series Resistance		10	Ω	Typ.
Shunt Capacitance	C0	3	pF	Max.
Aging at 25°C		± 1	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).

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

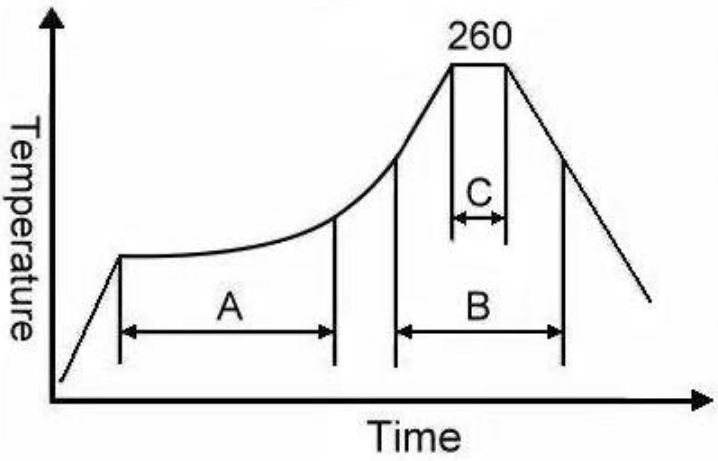
f)VIBRATION: JESD22-B103

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

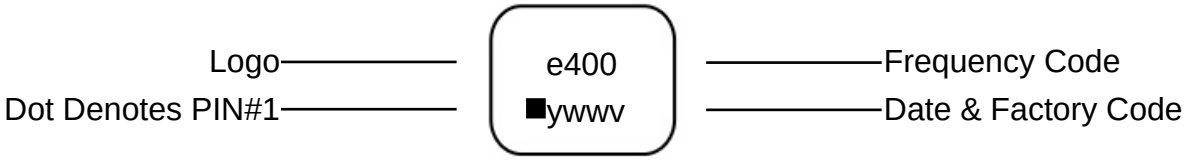


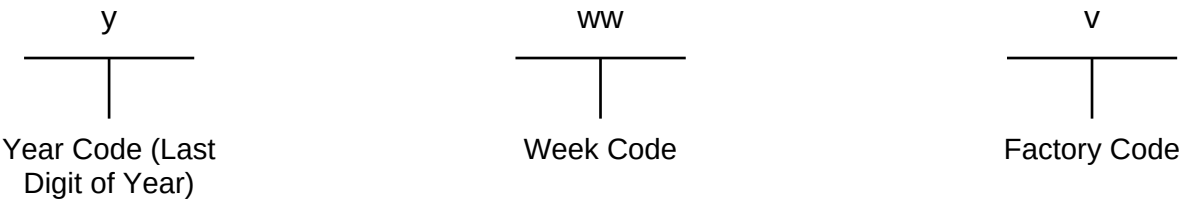
Note:

	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

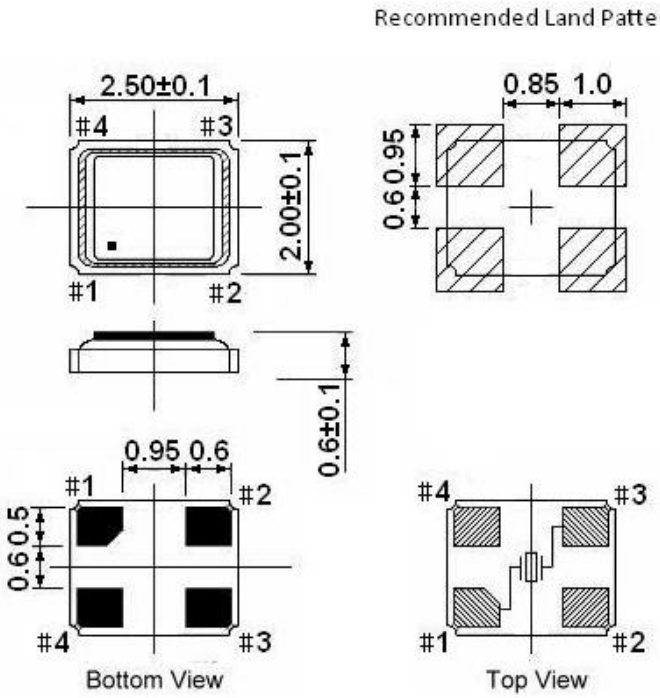
For soldering reflow profile and reliability test ratings go to: http://www.pericom.com/pdf/sre/reflow.pdf

MARKING





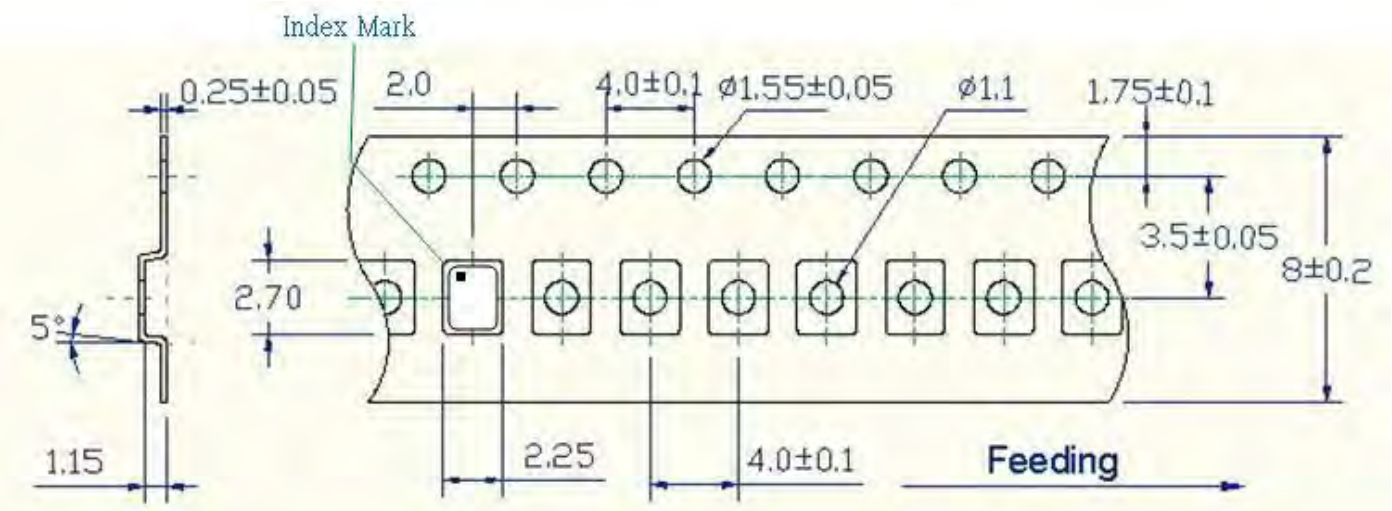
MECHANICAL DRAWINGS (Scale: None. Dimensions are in mm.)

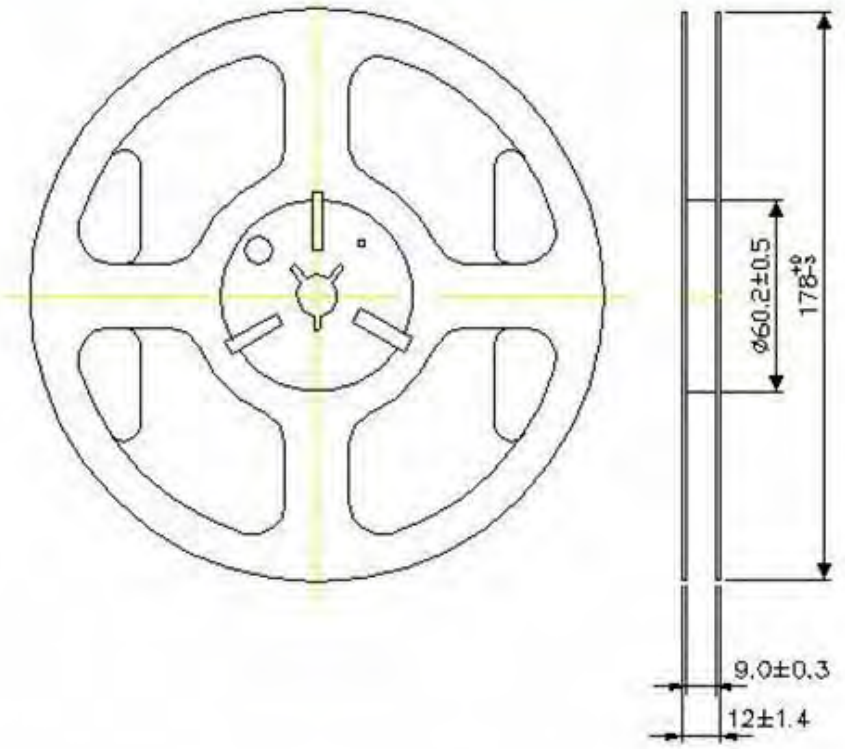


** Recommended - Pin 1 & 3 : CRYSTAL
Pin 2 & 4 : GND

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.

Tape & Reel

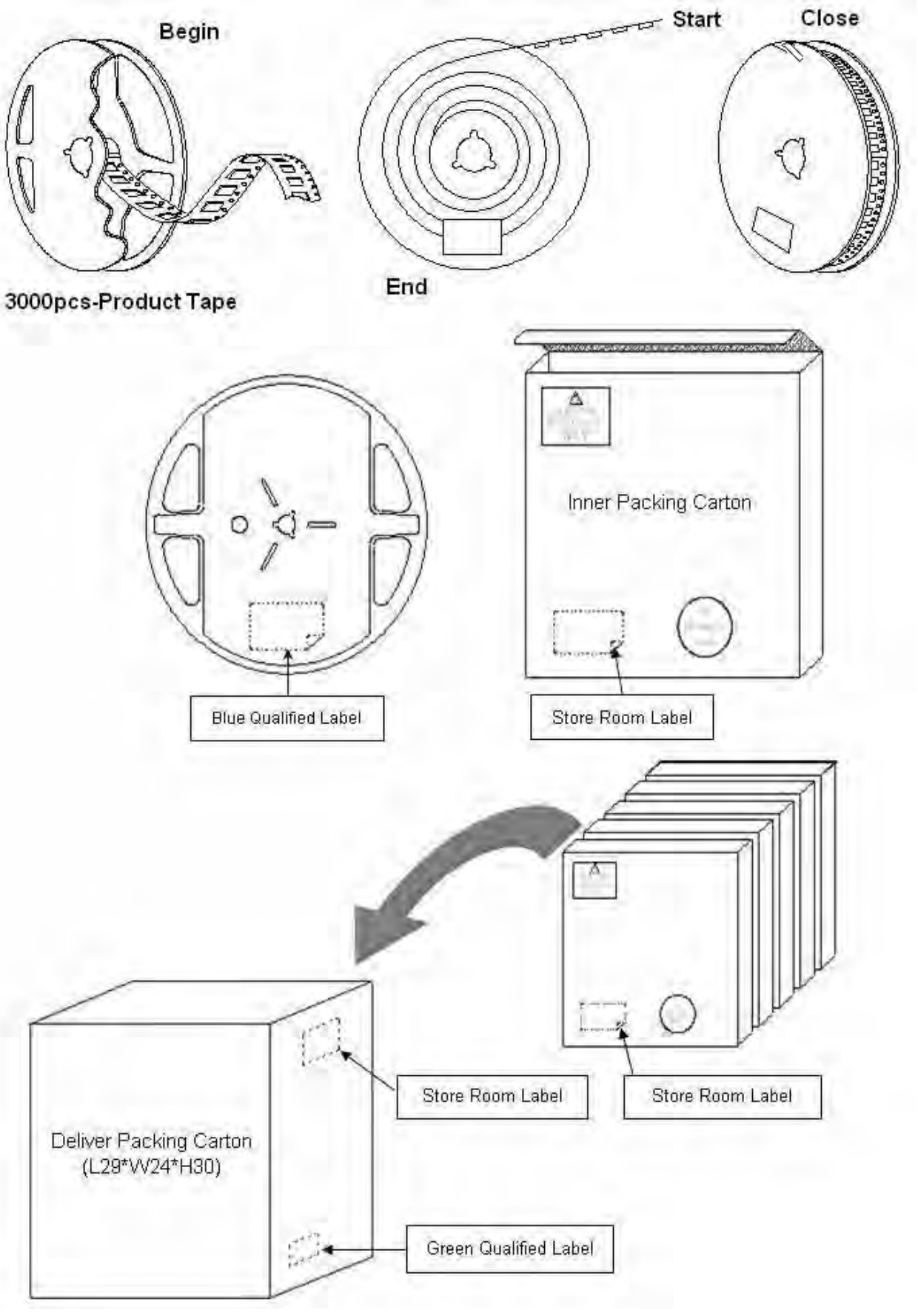




1. 230mm minimum leafer which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.

2. 160mm minimum trailer of empty carrier tape sealed with cover tape.

PACKING


Begin
Start
Close
End
3000pcs-Product Tape
Inner Packing Carton
Blue Qualified Label
Store Room Label
Store Room Label
Store Room Label
Deliver Packing Carton
(L29*W24*H30)
Green Qualified Label