

# **PSE Technology Corporation** SPECIFICATION FOR APPROVAL

CUSTOMER	
NOMINAL FREQUENCY	16.000000 MHz
PRODUCT TYPE	TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL
PART NUMBER	FW1600008
CUSTOMER P/N	
ISSUE DATE	March 11, 2014
VERSION	В

APPROVED	PREPARED	QA				
Brenda	Nikbi Lu	Bedayiri				
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

## TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL

#### FW1600008

VER.B 11-MAR-14

#### VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Feb. 19, 2014			Initial Release	
В	Mar. 11, 2014			Changed Frequency Stability from ±15ppm to ±20ppm	



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#### **ELECTRICAL SPECIFICATIONS**

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	16.000000	MHz	
Mode of Oscillation	МО	AT Cut-Fundamental		
Calibration Load Capacitance	CL	12	pF	
Calibration Tolerance	FL	± 10	ppm	at 25°C±3°C
Operating Temperature Range	TR	-40 to +85	°C	
Frequency Stability(Frequency Deviation over the Operating Temperature Range)	F/T	± 20	ppm	Reference to the Frequency at 25°C
Operating Drive Level		10	μW	
Maximum Drive Level		100	μW	
Equivalent Series Resistance	ESR	150	Ω	Max.
Shunt Capacitance	C0	3	pF	Max.
Aging at 25°C		± 3	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

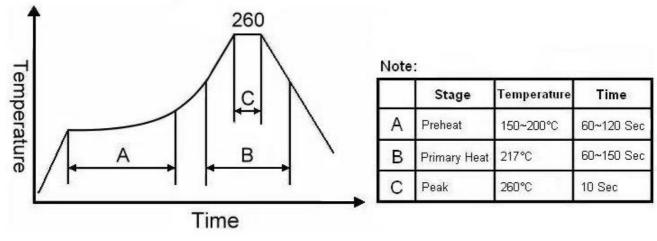
f)VIBRATION: JESD22-B103

g)SOLVENT RESISTANCE: JESD22-B107

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

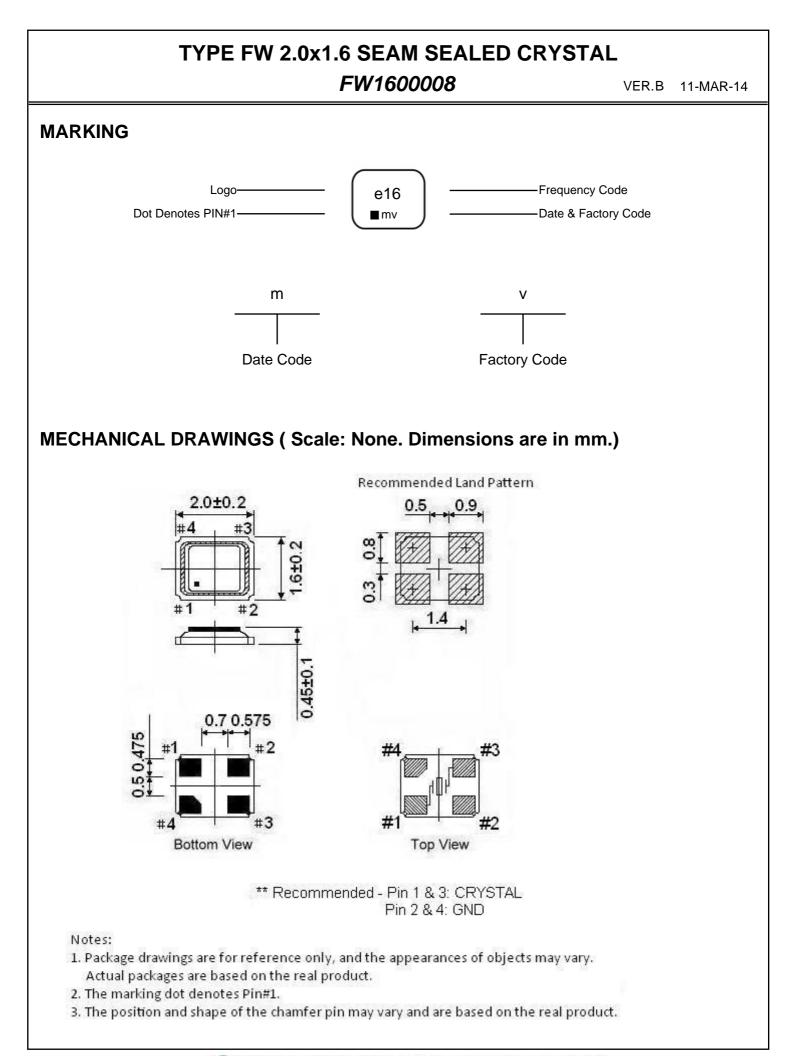
#### SUGGESTED IR REFLOW PROFILE

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



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

## PERICOM SaRonix-eCera"

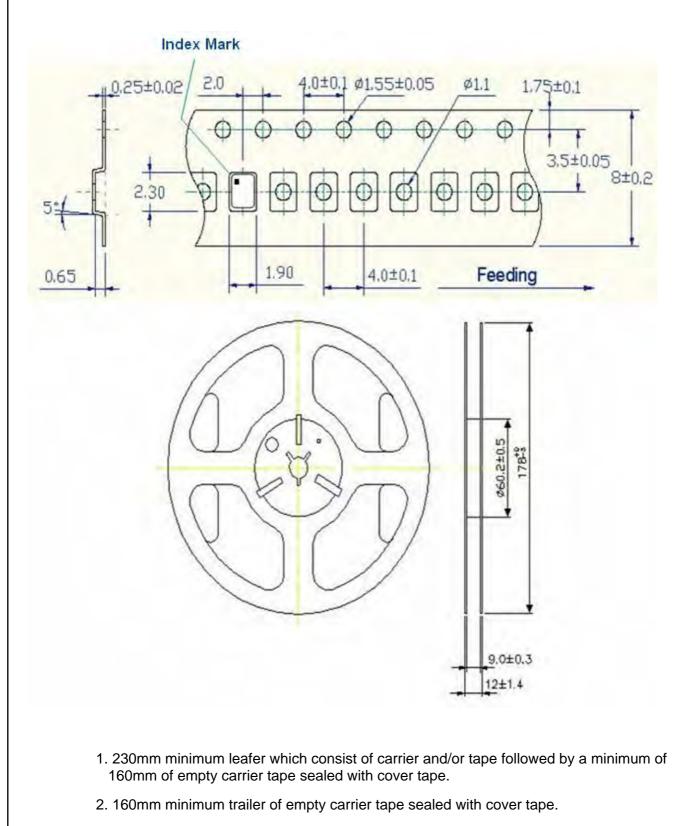


## PERICOM SaRonix-ecera"

#### TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL FW1600008

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#### Tape & Reel

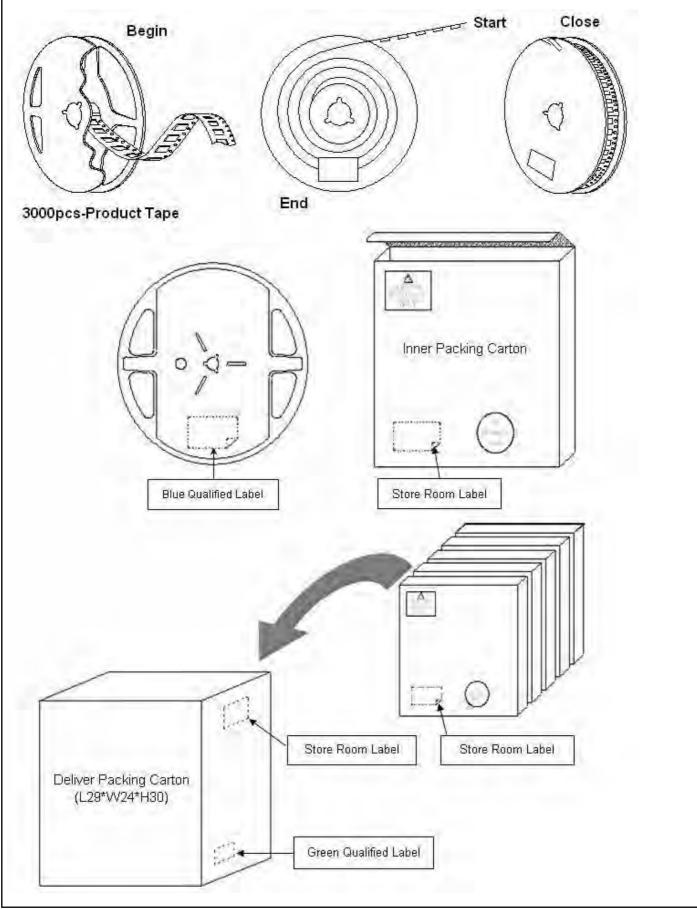




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#### PACKING





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