# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



### Contact us

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## **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 returr	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

	rsion lo.	Version Date	Customer Receipt Date	Supplier Receipt Date	t Description Notes	
	A	Feb. 19, 2014			Initial Release	
E	В	Mar. 11, 2014			Changed Frequency Stability from ±15ppm to ±20ppm	



## TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL

#### FW1600008

VER.B 11-MAR-14

#### **ELECTRICAL SPECIFICATIONS**

Item	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).



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

#### **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

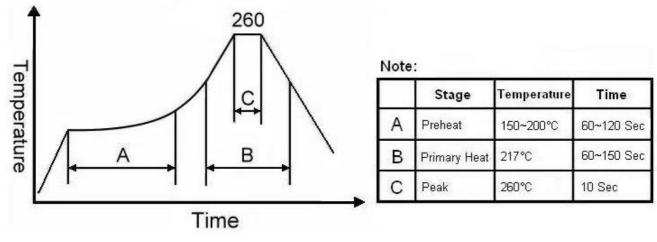
f)VIBRATION: JESD22-B103

g)SOLVENT RESISTANCE: JESD22-B107

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

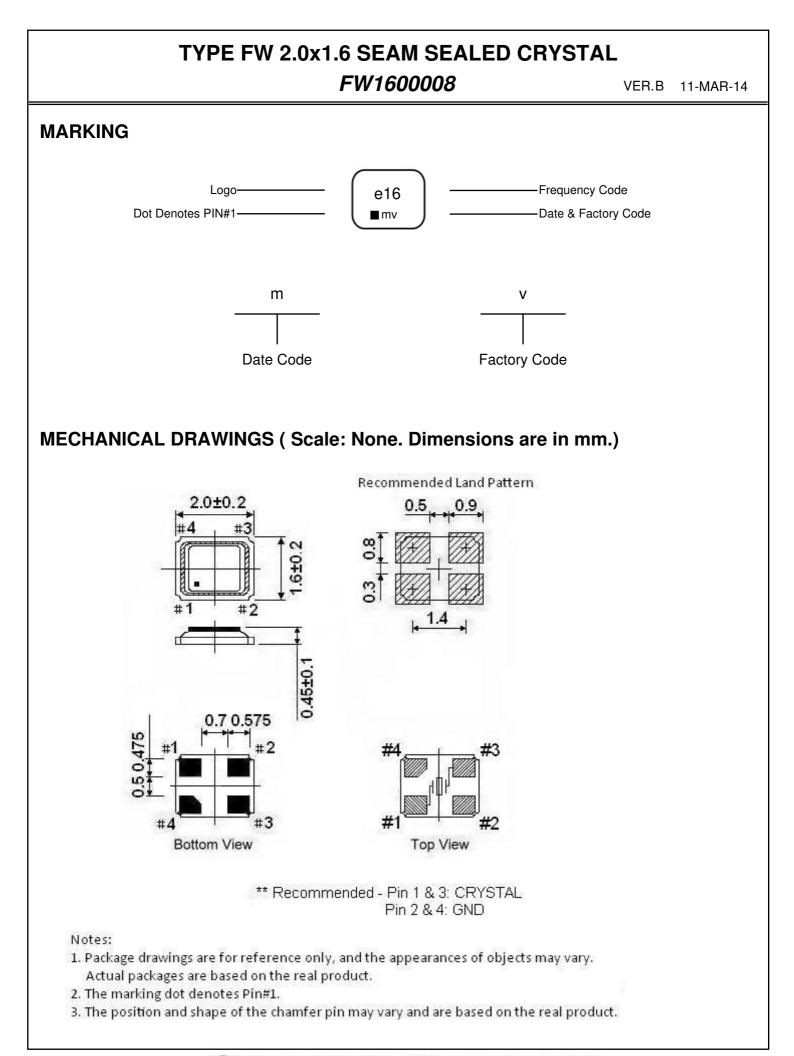
#### SUGGESTED IR REFLOW PROFILE

\*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



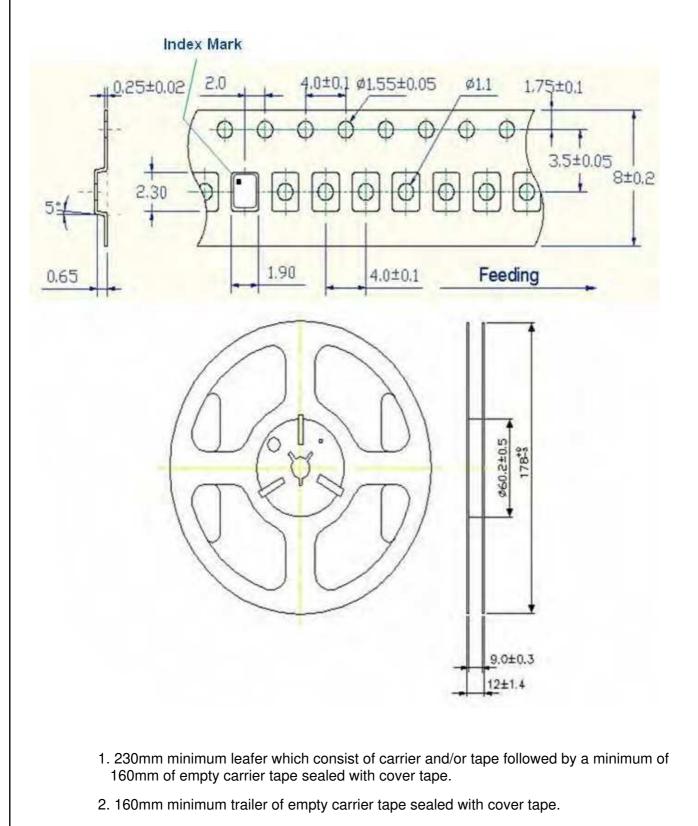


### PERICOM SaRonix-ecera"

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

VER.B 11-MAR-14

#### Tape & Reel





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

VER.B 11-MAR-14

#### PACKING

