PERIC PSE Tecl	COM® Sa hnology Corp			
SPECIFICAT	TON FOR A	APPROVAL		
CUSTOMER				
NOMINAL FREQUENCY	16.00	16.000000 MHz		
PRODUCT TYPE	TYPE FH 2.5x2.0 S	TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL		
SPEC. NO. ( P/N )	FF	FH1600011		
CUSTOMER P/N				
ISSUE DATE	Mar	March 8, 2011		
VERSION		C		
APPROVED	PREPARED	QA		
Brenda	Claine	Canthen		
APPROVED BY	APPROVED BY CUSTOMER :			
Please return one copy w	ith approval to PSE-TW			
PSE Technology Corpor				
No.2, Tzu-Chiang 5th Rd, Chung Li Industrial Park, Chung Li City, Taoyuan County, Taiwan (R.O.C.)		*Pb-free		
TEL: 886-3-451-8888 FAX: 886-3-461-3865		*RoHS Compliant *HF-Halogen Free		
http://www.saronix-ecera.com.tw		*REACH Compliant		
*** A company of 💋	PERICOM Semicon	ductor Corporation ***		

### **TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL**

#### FH1600011

VER. C 8-Mar-11

#### **VERSION HISTORY**

Notes	
New Logo	

# PERICOM SaRonix-eCera

E0-R-4-014 Rev. E

### **TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL**

#### FH1600011

VER. C 8-Mar-11

#### **ELECTRICAL SPECIFICATIONS**

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	16.000000	MHz	
Mode of Oscillation	MO	AT Cut-Fundamental		
Calibration Load Capacitance	CL	10	pF	
Calibration Tolerance	FL	±10	ppm	at 25°C±3°C
Operating Temperature Range	TR	-20 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	150	Ω	Max
Shunt Capacitance	C0	5	pF	Мах
Aging at 25°C		±5	ppm	Max, 1st year
Storage Temperature		-55 to +125	°C	
Insulation Resistance		500	MΩ	Min

X 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).



E0-R-4-014 Rev. E

### **TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL**

#### FH1600011

VER. C 8-Mar-11

#### **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

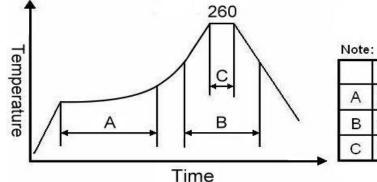
f) VIBRATION: JESD22-B103

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

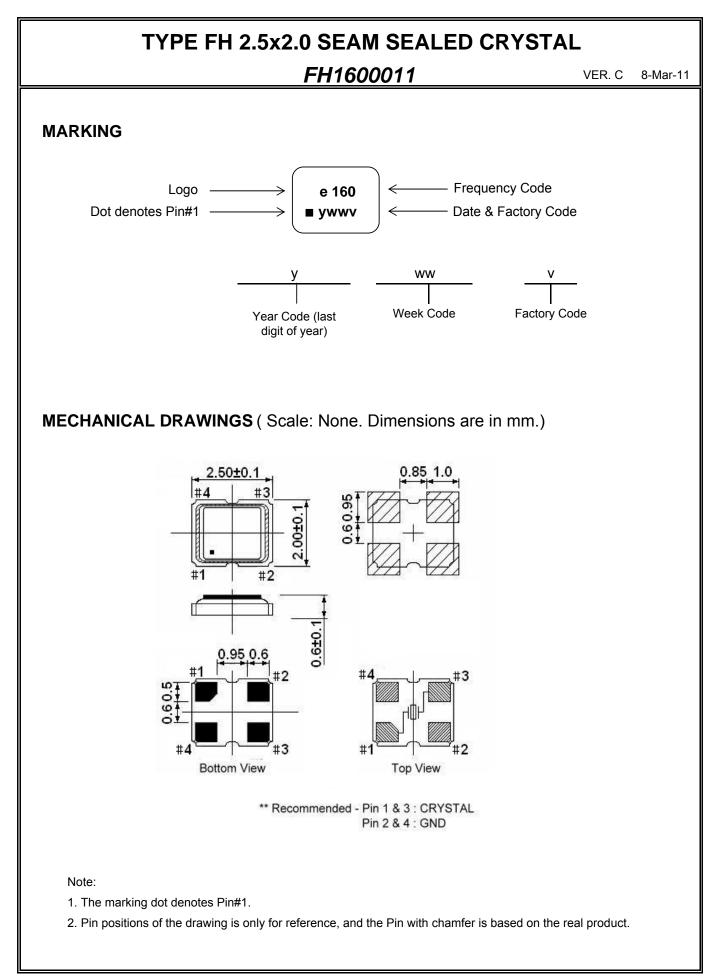
\*As per IPC-JEDEC J-STD-020D



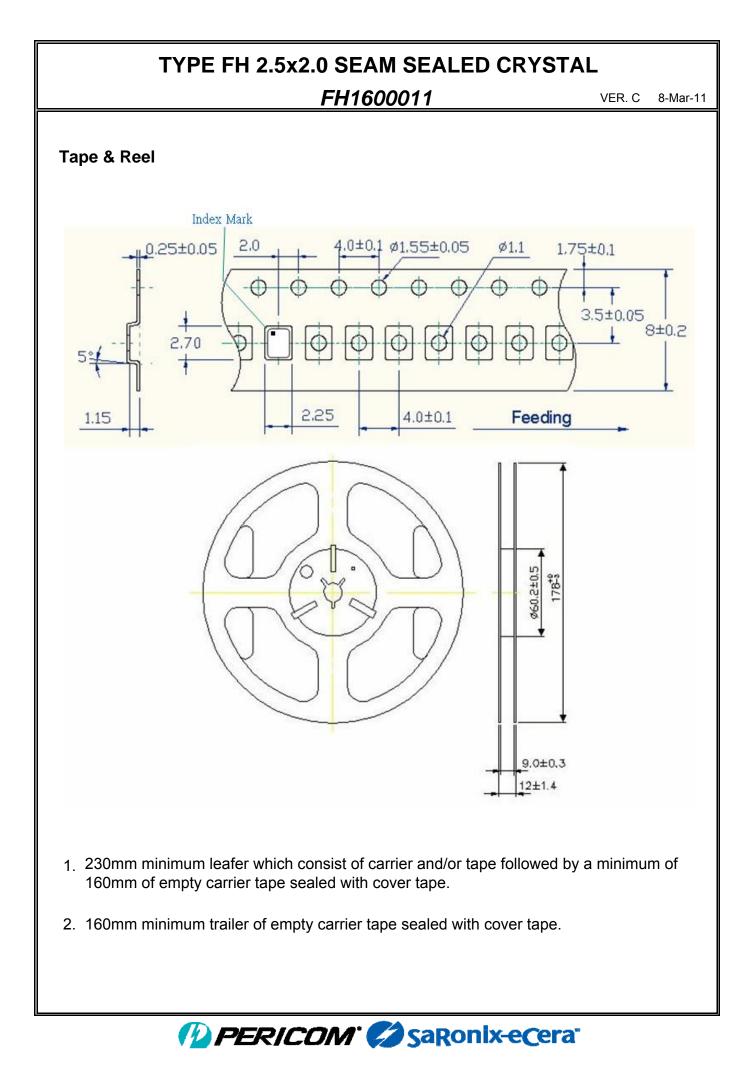
	Stage	Temperature	Time
А	Preheat	150~200°C	60~120 Sec
В	Primary Heat	217°C	60~150 Sec
С	Peak	260°C	10 Sec

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

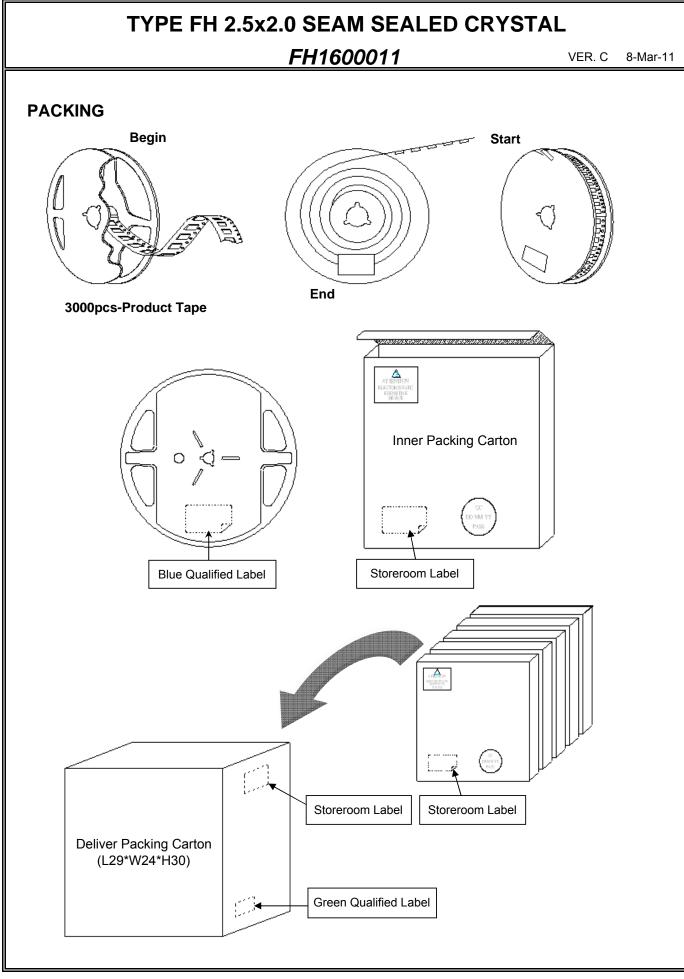
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## PERICOM Saronix-ecera



E0-R-4-014 Rev. E



# PERICOM' Saronix-ecera