

PSE Technology Corporation SPECIFICATION FOR APPROVAL

CUSTOMER			
NOMINAL FREQUENCY	20.000000 MHz		
PRODUCT TYPE	TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL		
PART NUMBER	FW200008		
CUSTOMER P/N			
ISSUE DATE	December 25, 2012		
VERSION	Α		

APPROVED	PREPARED	QA			
Brenda	Nikbi Lu	Beday in			
APPROVED BY CUSTOMER					
Please return 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

EW/200000



TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL

FW200008

VER.A 25-DEC-12

ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes
Nominal Frequency	Fn	20.000000	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	-20 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	80	Ω	Max.
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).



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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

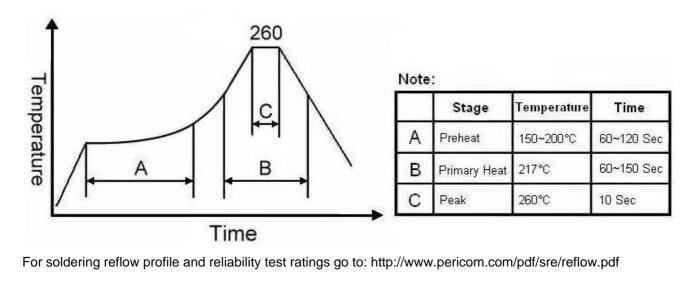
f)VIBRATION: JESD22-B103

g)SOLVENT RESISTANCE: JESD22-B107

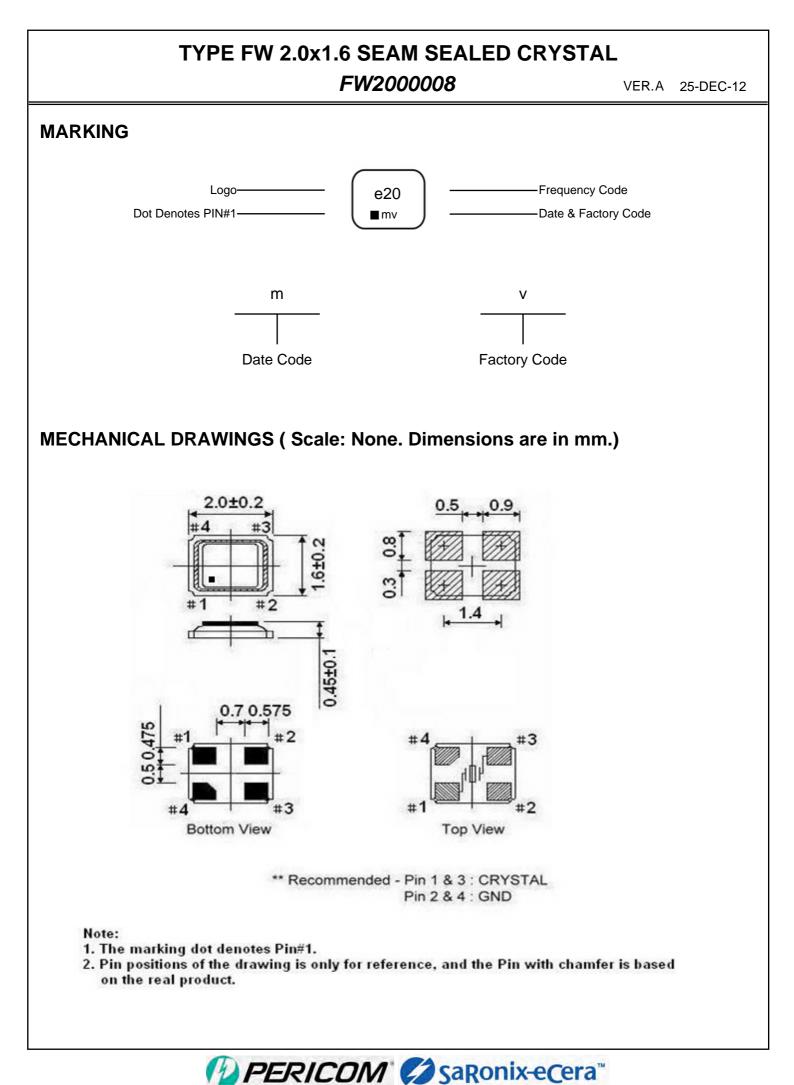
h)RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

SUGGESTED IR REFLOW PROFILE

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



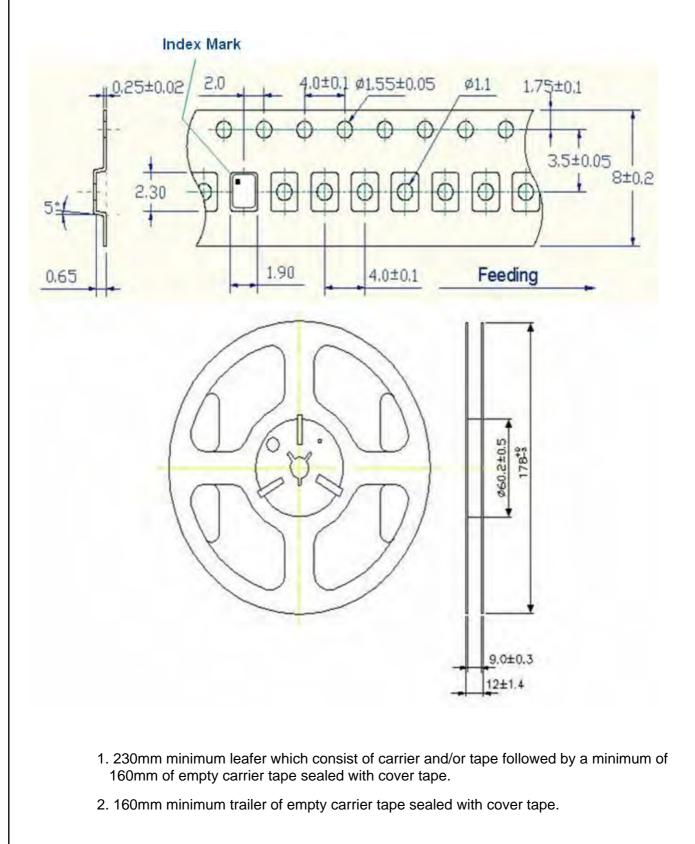




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Tape & Reel





TYPE FW 2.0x1.6 SEAM SEALED CRYSTAL FW2000008

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PACKING

