******************************	nnology Corp ION FOR A	***************		
CUSTOMER				
NOMINAL FREQUENCY	12.00	0000 MHz		
PRODUCT TYPE	TYPE FH 2.5x2.0 S	EAM SEALED CRYSTA		
SPEC. NO. (P/N)	FH	1200001		
CUSTOMER P/N				
ISSUE DATE	Apri	April 26, 2012		
VERSION		D		
APPROVED	PREPARED	QA		
Brenda	Niflei Lu	Bedayiri		
APPROVED BY	AVL Status			
Please return one copy wi	th approval to PSE-TW			
PSE Technology Corpor	ation			
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		

TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL

FH1200001

VER. D 26-Apr-12

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes	
А	Jan.4,2009			Initial Release		
В	Nov.2,2010			Revised format & Changed Logo		
С	Mar.25,2011			Updated Suggested IR Reflow Profile & Format		
D	Apr.26,2012			Changed Mechanical Drawings		

PERICOM SaRonix-ecera

E0-R-4-014 Rev. E

TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL

FH1200001

VER. D 26-Apr-12

ELECTRICAL SPECIFICATIONS

ltem	Symbol	Specifications	Units	Notes	
Nominal Frequency	Fn	12.000000	MHz		
Mode of Oscillation	MO	AT Cut-Fundamental			
Calibration Load Capacitance	CL	20	pF		
Calibration Tolerance	FL	±30	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	±30	ppm	Reference to the Frequency at 25°C	
Operating Drive Level		10	μW		
Maximum Drive Level		100	μW		
Equivalent Series Resistance	ESR	150	Ω	Мах	
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	
* 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)					

PERICOM' Saronix-ecera

E0-R-4-014 Rev. E

TYPE FH 2.5x2.0 SEAM SEALED CRYSTAL

FH1200001

VER. D 26-Apr-12

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

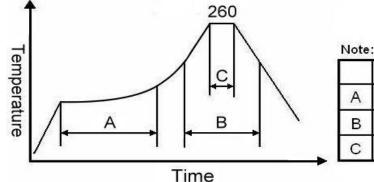
f) VIBRATION: JESD22-B103

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

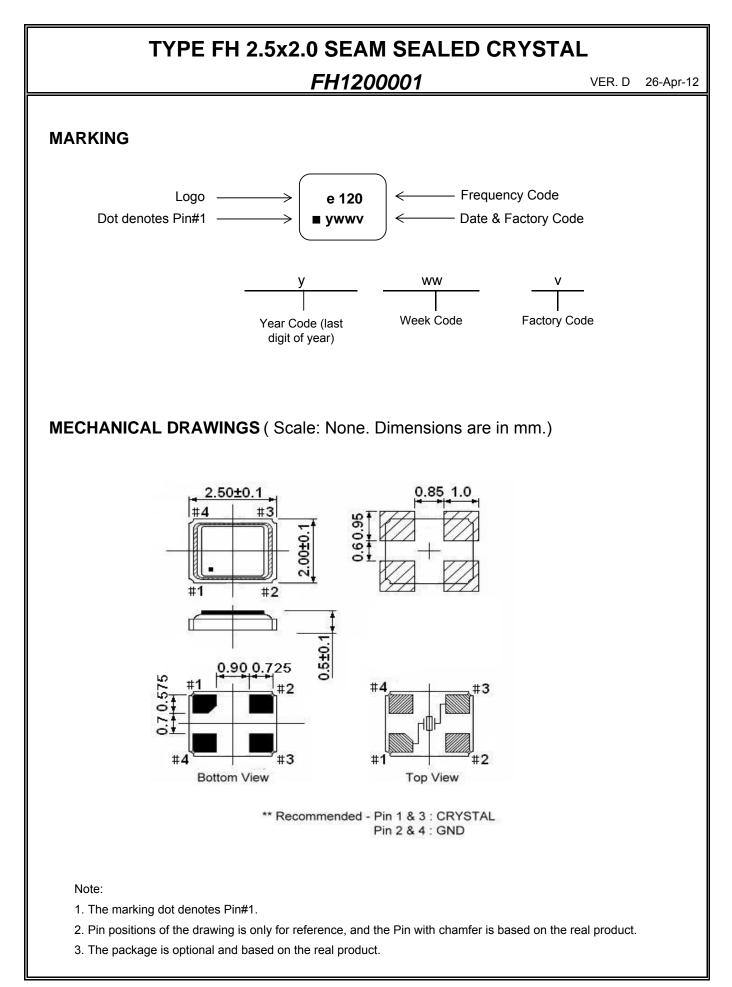
*As per IPC-JEDEC J-STD-020D



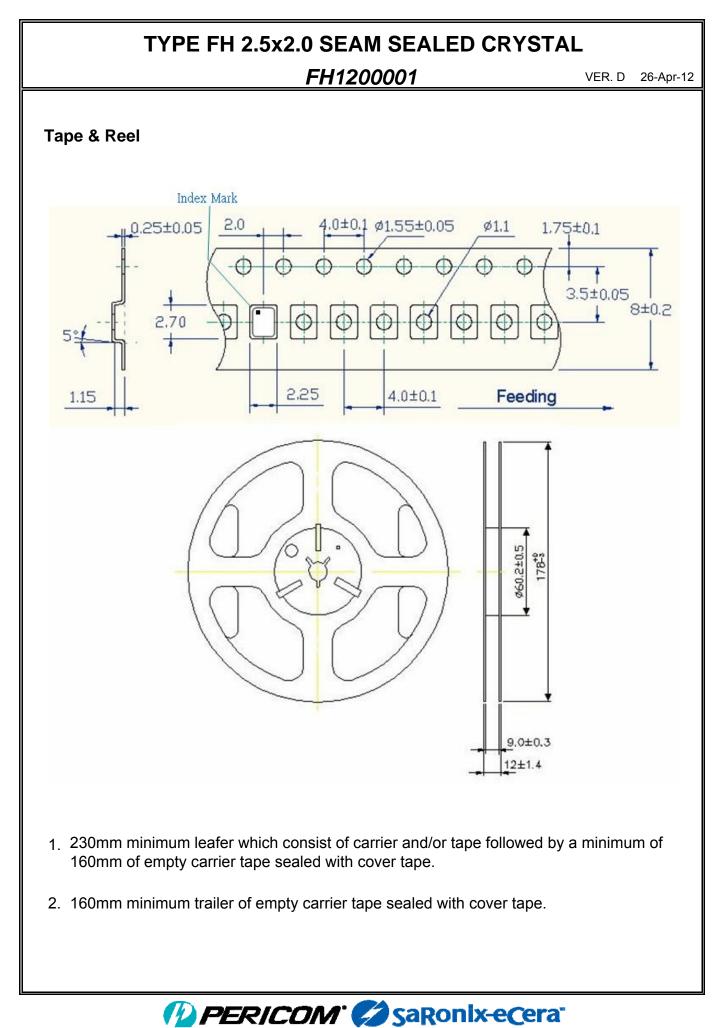
	Stage	Temperature	Time
А	Preheat	150~200°C	60~120 Sec
в	Primary Heat	217°C	60~150 Sec
С	Peak	260°C	10 Sec

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

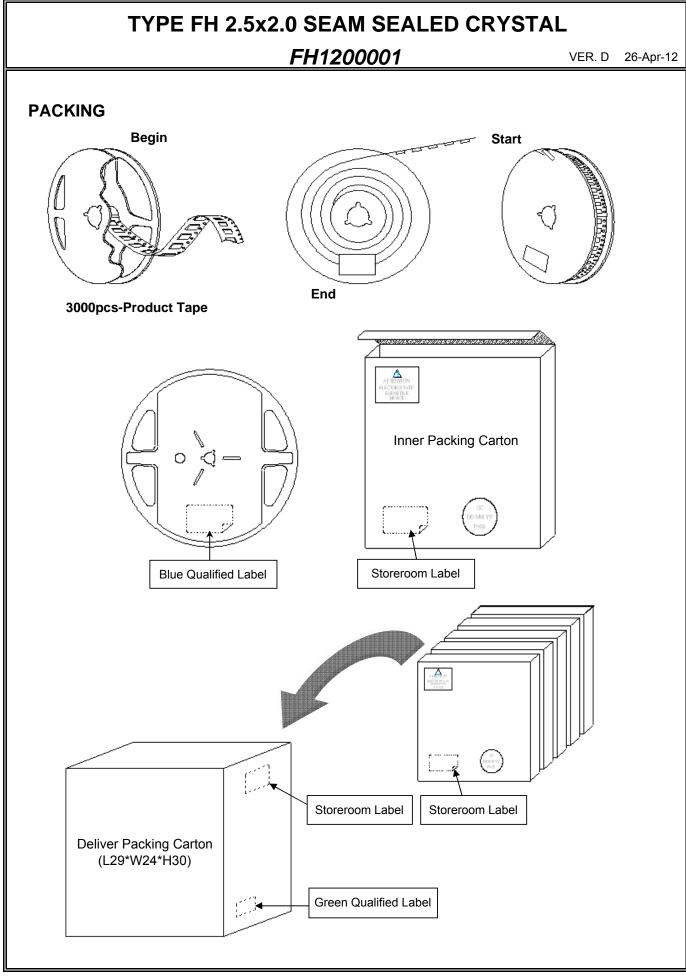
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