

PSE Technology Corporation

SPECIFICATION FOR APPROVAL

13.500000 MHz
TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL
FL1350008
May 18, 2016
C

APPROVED	PREPARED	QA
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APPROVED BY	AVL Status	
Please return one copy v	vith approval to PSE-TW	

PSE Technology Corporation

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http://www.saronix-ecera.com.tw

*Pb-free

*RoHS Compliant

*HF-Halogen Free

*REACH Compliant



*** A company of PERICOM Semiconductor Corporation ***

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VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes
А	Oct.17,2008			Initial Release	
В	Dec.24,2009			Revise Format	
С	May.18,2016			Updated mechanical drawings	

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ELECTRICAL SPECIFICATIONS

Item	Symbol	Specifications	Units	Notes	
Nominal Frequency	Fn	13.500000	MHz		
Mode of Oscillation	MO	AT Cut-Fundamental			
Calibration Load Capacitance	CL	16	pF		
Calibration Tolerance	FL	±20	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	±20	ppm	Reference to the Frequency at 25°C	
Operating Drive Level		10	μW		
Equivalent Series Resistance	ESR	100	Ω	Max	
Shunt Capacitance	C0	5	pF	Max	
Aging at 25°C		±3	ppm	Max, 1st year	
Storage Temperature		-55 to +125	°C		
Insulation Resistance		500	МΩ	Min	
W. This product describe include homeful substance that drivingleted by CONV. CC 00050 Lovel 4 and C. ATO 004 Lovel 4 standard Paul C Conviliant (Ph. Free)					

** 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

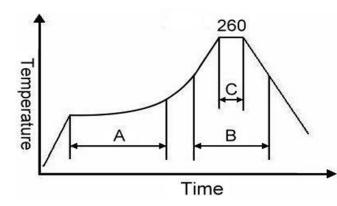
f) VIBRATION: JESD22-B103

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



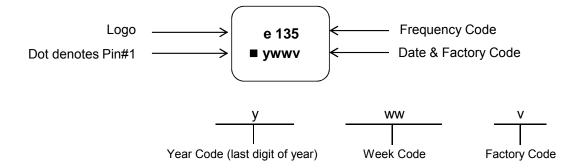
MOLE	ivote.						
	Stage	Temperature	Time				
Α	Preheat	150~200°C	60~120 Sec				
В	Primary Heat	217°C	60~150 Sec				
С	Peak	260°C	10 Sec				

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

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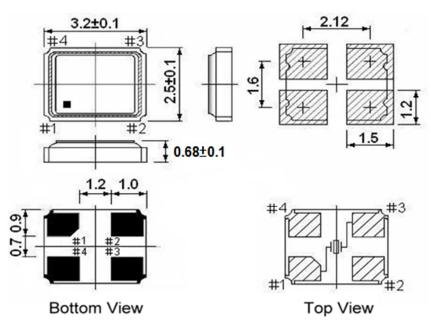
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MARKING



MECHANICAL DRAWINGS (Scale: None. Dimensions are in mm.)

Recommended Land Pattern



** Recommended - Pin 1 & 3 : CRYSTAL Pin 2 & 4 : GND

Notes:

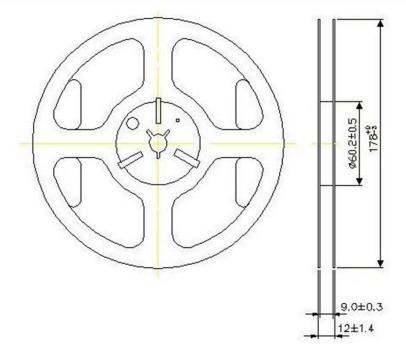
- Package drawings are for reference only, and the appearances of objects may vary.
 Actual packages are based on the real product.
- 2. The marking dot denotes Pin#1.
- 3. The position and shape of the chamfer pin may vary and are based on the real product.



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Tape & Reel



- 1. 230mm minimum leafer which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.
- 2. 160mm minimum trailer of empty carrier tape sealed with cover tape.

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL FL1350008 VER. C 18-May-16 **PACKING** Begin Start End 3000pcs-Product Tape Inner Packing Carton Blue Qualified Label Storeroom Label

