

# **PSE Technology Corporation** SPECIFICATION FOR APPROVAL

| CUSTOMER          |                                     |
|-------------------|-------------------------------------|
| NOMINAL FREQUENCY | 25.000000 MHz                       |
| PRODUCT TYPE      | TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL |
| PART NUMBER       | FL2500133                           |
| CUSTOMER P/N      |                                     |
| ISSUE DATE        | February 23, 2012                   |
| VERSION           | Α                                   |

APPROVED PREPARED QA About Young Brenda Bedgy With 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

#### FL2500133

VER.A 23-FEB-12

| VERSION | HISTORY |
|---------|---------|
|         |         |

| VERSION HISTORY |                 |                          |                          |                 |         |  |
|-----------------|-----------------|--------------------------|--------------------------|-----------------|---------|--|
| Version<br>No.  | Version<br>Date | Customer Receipt<br>Date | Supplier Receipt<br>Date | Description     | Notes   |  |
| А               | Feb. 23, 2012   |                          |                          | Initial Release |         |  |
|                 |                 |                          |                          |                 |         |  |
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|                 |                 |                          |                          | SaRonix-eCera™  |         |  |
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VER.A 23-FEB-12

#### **ELECTRICAL SPECIFICATIONS**

| Item  | Symbol | Specifications     | Units | Notes                              |
|---|--------|--------------------|-------|------------------------------------|
| Nominal Frequency   | Fn     | 25.000000          | MHz   |                                    |
| Mode of Oscillation   | МО     | AT Cut-Fundamental |       |                                    |
| Calibration Load Capacitance  | CL     | 18                 | pF    |                                    |
| Calibration Tolerance   | FL     | ± 20               | ppm   | at 25°C±3°C                        |
| Operating Temperature Range   | TR     | -40 to +85         | °C    |                                    |
| Frequency Stability(Frequency<br>Deviation over the Operating<br>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    | 40                 | Ω     | Max.                               |
| Shunt Capacitance   | C0     | 5                  | pF    | Max.                               |
| Aging at 25°C   |        | ± 5                | ppm   | Max, 1st year                      |
| Storage Temperature   | 1      | -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

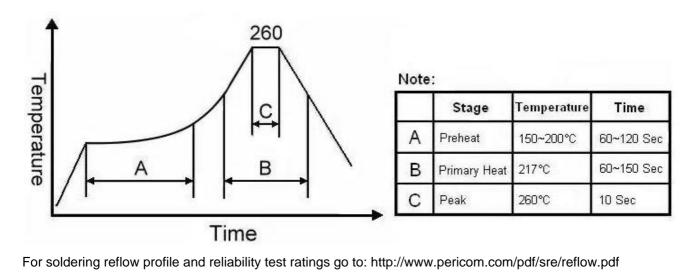
f)VIBRATION: JESD22-B103

g)SOLVENT RESISTANCE: JESD22-B107

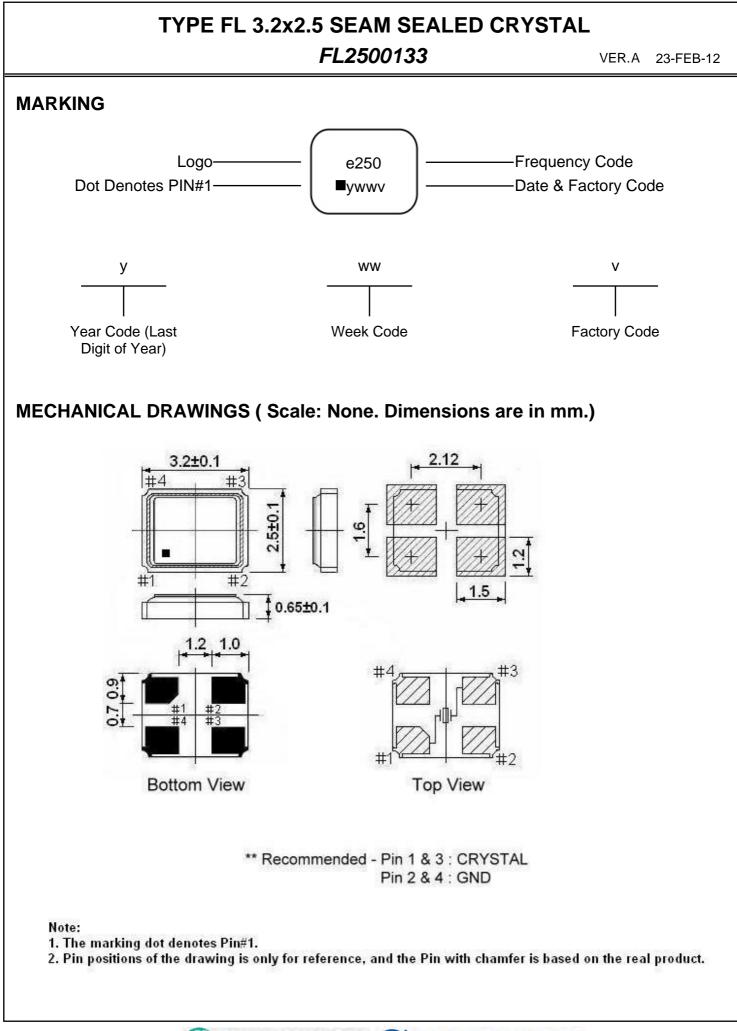
h)RESISTANCE TO SOLDERING HEAT (RoHS version): J-STD-020D Table 5.2 Pb free devices (3 cycles max)

#### SUGGESTED IR REFLOW PROFILE

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





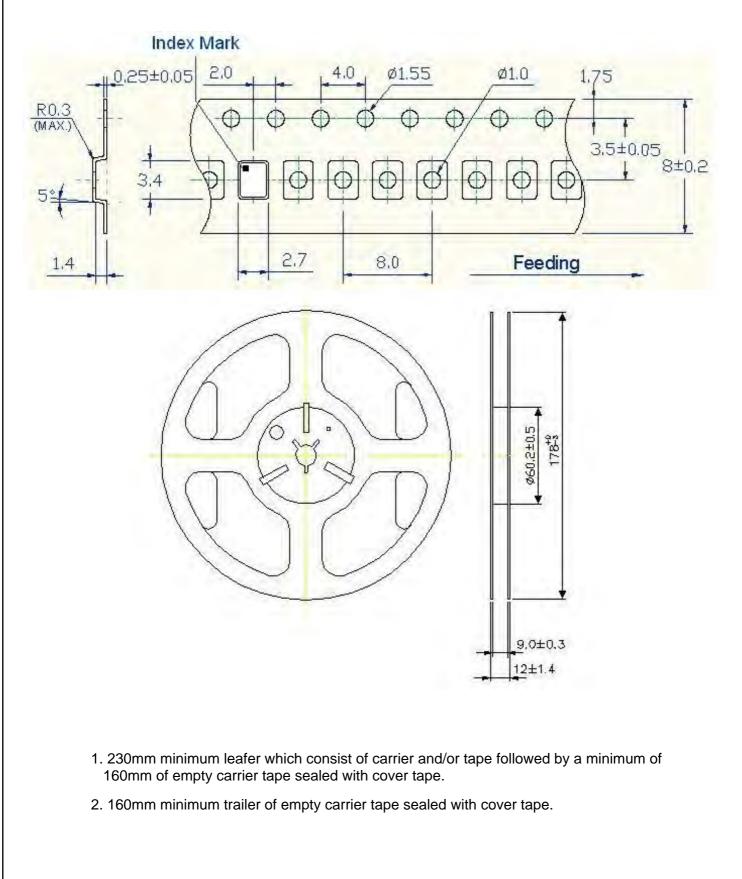


## PERICOM SaRonix-eCera"

FL2500133

VER.A 23-FEB-12

Tape & Reel





#### FL2500133

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#### PACKING

