
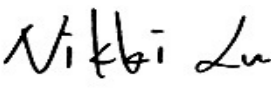



PSE Technology Corporation

SPECIFICATION FOR APPROVAL

| | |
|-------------------|--|
| CUSTOMER | _____ |
| NOMINAL FREQUENCY | 25.000000 MHz |
| PRODUCT TYPE | TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL |
| PART NUMBER | FL2500283Z |
| CUSTOMER P/N | _____ |
| ISSUE DATE | September 10, 2014 |
| VERSION | B |

| APPROVED | PREPARED | QA |
|---|---|---|
|  |  |  |
| APPROVED BY CUSTOMER | | |
| Please return one copy with 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

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2500283Z

VER.B 10-SEP-14

VERSION HISTORY

| Version No. | Version Date | Customer Receipt Date | Supplier Receipt Date | Description | Notes |
|-------------|---------------|-----------------------|-----------------------|--------------------------------------|-------|
| A | Sep. 4, 2014 | | | Initial Release | |
| B | Sep. 10, 2014 | | | Updated Drive level & added C1 spec. | |

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL2500283Z

VER.B 10-SEP-14

ELECTRICAL SPECIFICATIONS

| Item | Symbol | Specifications | Units | Notes |
|------------------------------|--------|--------------------|-------|------------------------------------|
| Nominal Frequency | Fn | 25.000000 | MHz | |
| Mode of Oscillation | MO | AT Cut-Fundamental | | |
| 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 | F/T | ± 30 | ppm | Reference to the Frequency at 25°C |
| Drive Level | | 0.01 / 100 / 500 | μW | Min. / Typ. / Max. |
| Equivalent Series Resistance | ESR | 50 | Ω | Max. |
| Shunt Capacitance | C0 | 5 | pF | Max. |
| Motional Capacitance | C1 | 3.1 | fF | Typ. |
| Aging at 25°C | | ± 3 | 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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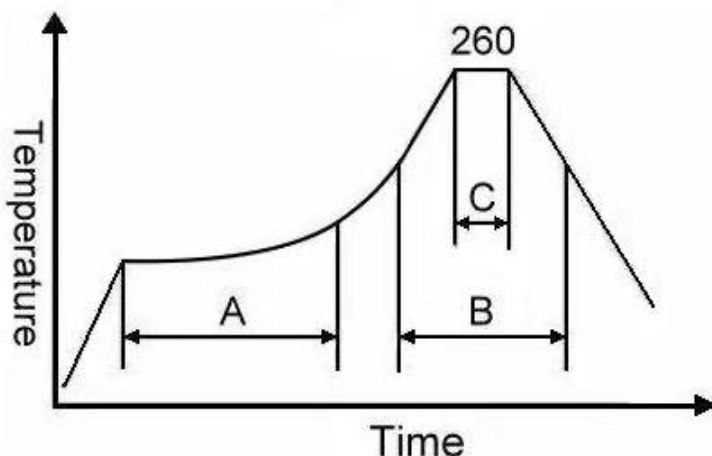
RELIABILITY SPECIFICATIONS

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



Note:

| | Stage | Temperature | Time |
|---|--------------|-------------|------------|
| A | Preheat | 150~200°C | 60~120 Sec |
| B | Primary Heat | 217°C | 60~150 Sec |
| C | 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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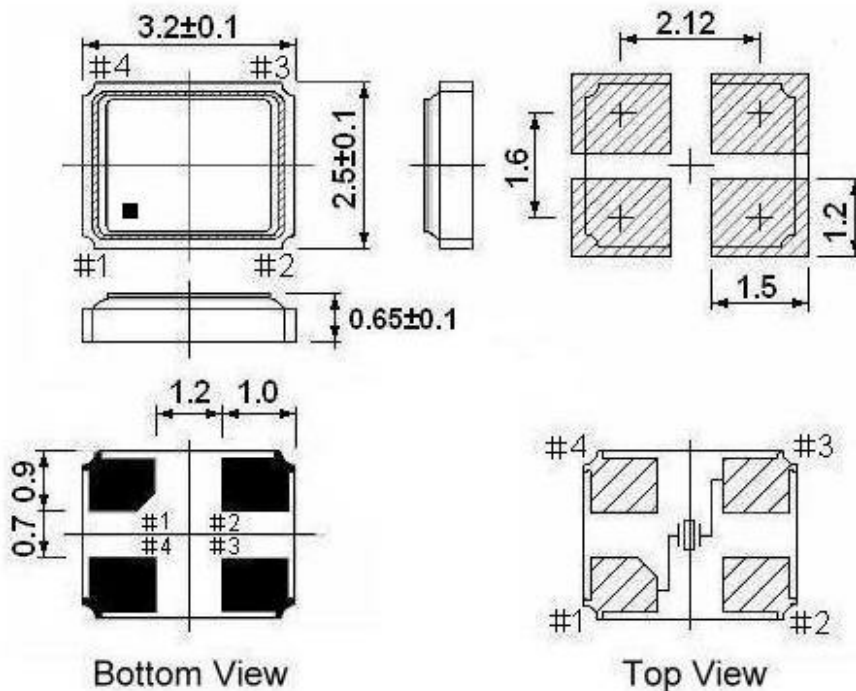
VER.B 10-SEP-14

MARKING



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

Recommended Land Pattern



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

Notes:

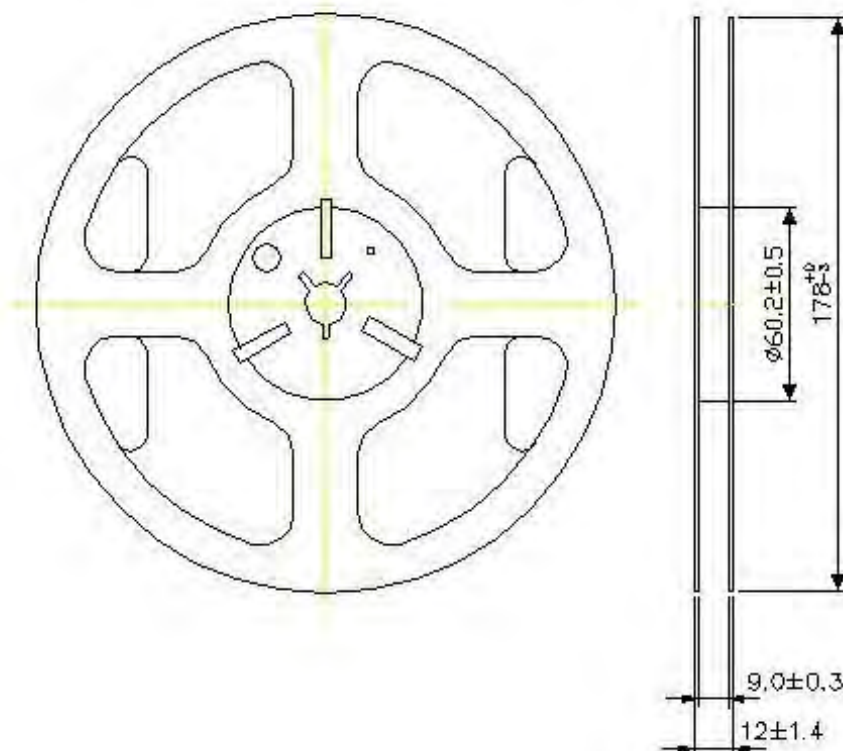
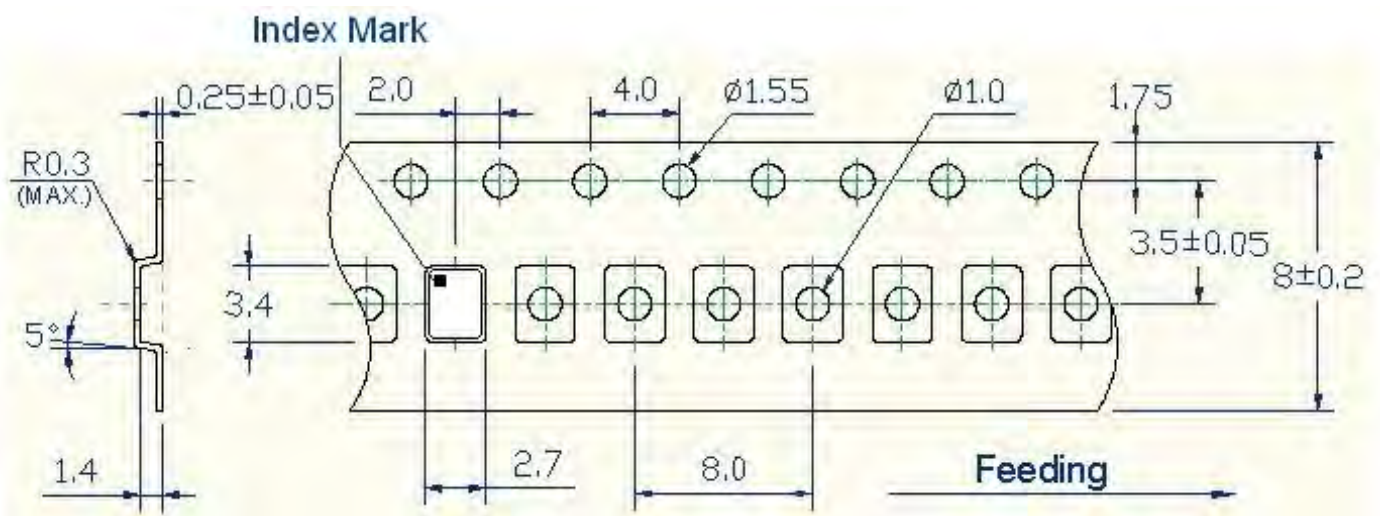
1. Package drawings are for reference only, and the appearances of objects may vary. Actual packages are based on the real product.
2. The marking dot denotes Pin#1.
3. The position and shape of the chamfer pin may vary and are based on the real product.

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Tape & Reel



1. 230mm minimum leader 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.

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VER.B 10-SEP-14

PACKING



Mouser Electronics

Authorized Distributor

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