| | A Diode | Product Line of es Incorporated | | PERICOM | | |
|---|------------|-------------------------------------|------|--|--|--|
| SPECIFICAT | ION | FOR | A | PPROVAL | | |
| CUSTOMER | | | | | | |
| NOMINAL FREQUENCY | | 12.000000 MHz | | | | |
| PRODUCT TYPE | TY | TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL | | | | |
| SPEC. NO. (P/N) | | FL1200083 | | | | |
| CUSTOMER P/N | | | | | | |
| ISSUE DATE | | December 21, 2017 | | | | |
| VERSION | | D | | | | |
| | | | | | | |
| Brenda | K | elly | | QA Domp Yang | | |
| Diodes Incorporated No.2, Ziqiang 5th Rd., Zhongli Indust Zhongli Dist., Taoyuan City 32063, Ta TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com | | 9.C.) * * | HF-H | ee S Compliant alogen Free CH Compliant | | |

FL1200083

VER. D 21-Dec-17

VERSION HISTORY

| Version Version No. Date | | Description | Notes | |
|-----------------------------|-------------|--|-------|--|
| А | Dec.19,2008 | Initial Release | | |
| В | Apr.6,2009 | Revise Format | | |
| С | May.3,2011 | Updated Suggested IR Reflow Profile & Format | | |
| D | Dec.21,2017 | Updated logo | | |
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FL1200083

VER. D 21-Dec-17

ELECTRICAL SPECIFICATIONS

| Item | Symbol | Specifications | Units | Notes |
|--|--------|--------------------|-------|--|
| Nominal Frequency | Fn | 12.000000 | MHz | |
| Mode of Oscillation | MO | AT Cut-Fundamental | | |
| Calibration Load Capacitance | CL | 9 | pF | |
| Calibration Tolerance | FL | ±20 | ppm | at 25℃±3℃ |
| 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° |
| Operating Drive Level | | 10 | μW | |
| Maximum Drive Level | | 100 | μW | |
| Equivalent Series Resistance | ESR | 100 | Ω | Max |
| Shunt Capacitance | C0 | 5 | pF | Max |
| Aging at 25℃ | | ±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).



FL1200083

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Time

60~120 Sec 60~150 Sec

10 Sec

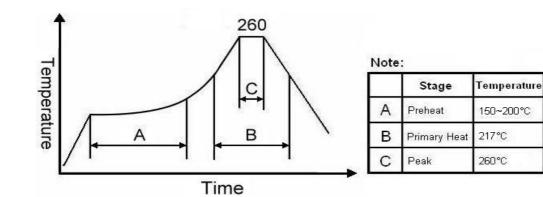
RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

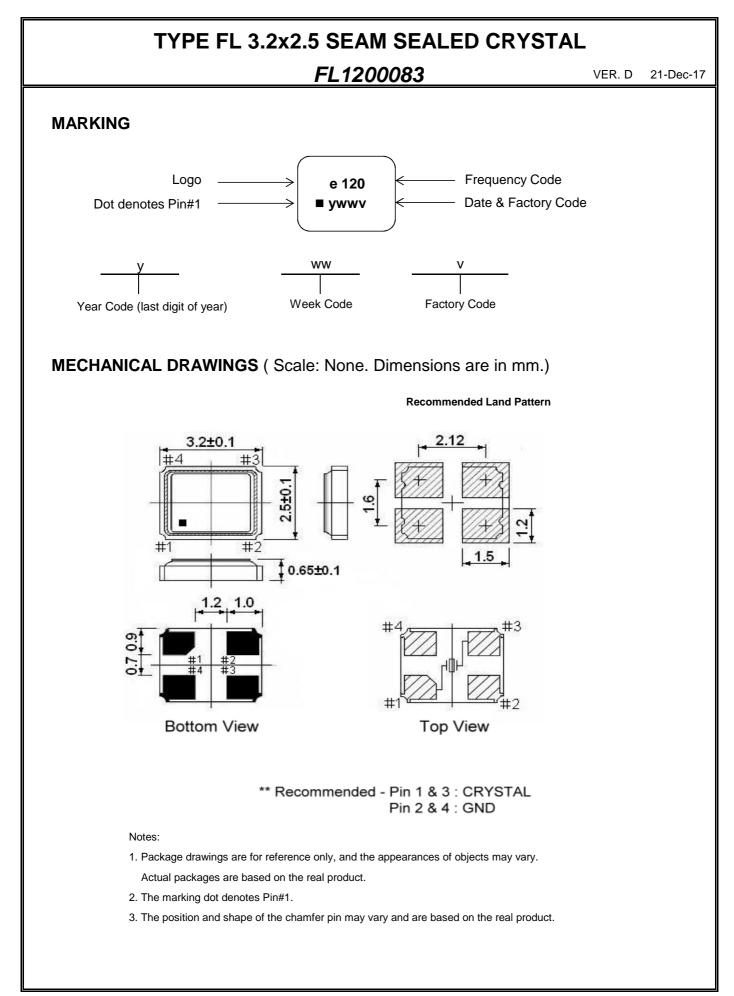
- a) FINE LEAK TEST: JESD22-A109 (Condition 1A)
- b) GROSS LEAK TEST: JESD22-A109 (Condition C)
- c) MOISTURE RESISTANCE: JESD22-A113
- d) SHOCK: JESD22-B104 (Condition B)
- e) SOLDERABILITY : (RoHS version): J-STD-002
- f) VIBRATION: JESD22-B103
- g) SOLVENT RESISTANCE: JESD22-B107
- h) RESISTANCE TO 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





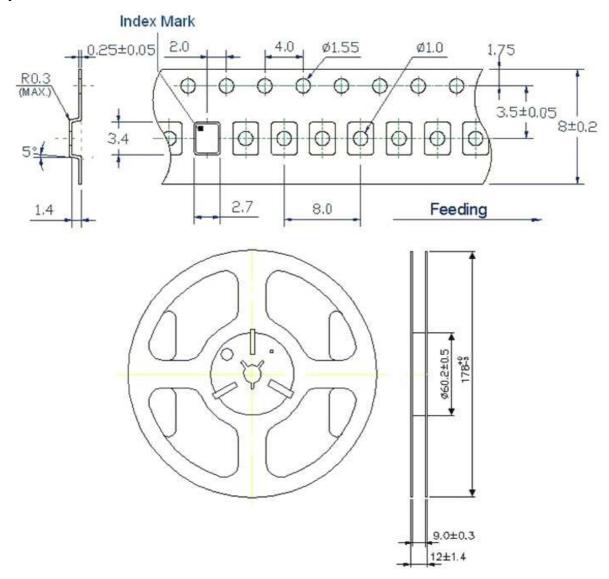




FL1200083

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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.



