| | A Product Line of Diodes Incorporated | PERICOM | | | |
|--|--|---|--|--|--|
| SPECIFICA7 | TION FOR A | PPROVAL | | | |
| CUSTOMER | | | | | |
| NOMINAL FREQUENCY | 16.00 | 16.00000 MHz | | | |
| PRODUCT TYPE | <u>TYPE FL 3.2x2.5 S</u> | TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL | | | |
| SPEC. NO. (P/N) | FL | FL1600055 | | | |
| CUSTOMER P/N | | | | | |
| ISSUE DATE | Janu | January 3, 2018 | | | |
| VERSION | | D | | | |
| APPROVED | PREPARED | QA | | | |
| Brenda | Kelly | Dony Yang | | | |
| Diodes Incorporated No.2, Ziqiang 5th Rd., Zhongli Indu Zhongli Dist., Taoyuan City 32063, TEL: 886-3-451-8888 FAX: 886-3-461-3865 https://www.diodes.com | Taiwan (R.O.C.) *RoH *RoH | ree S Compliant Halogen Free .CH Compliant | | | |

FL1600055

VER. D 3-Jan-18

VERSION HISTORY

| Version No. | Version Date | Description | Notes | |
|----------------|-----------------|--|-------|--|
| А | Dec.2,2009 | Initial Release | | |
| В | Dec.30,2010 | Changed Logo | | |
| С | May.5,2011 | Updated Suggested IR Reflow Profile & Format | | |
| D | Jan.3,2018 | Updated logo | | |
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FL1600055

VER. D 3-Jan-18

ELECTRICAL SPECIFICATIONS

| Item | Symbol | Specifications | Units | Notes |
|--|--------|--------------------|-------|-----------------------------------|
| Nominal Frequency | Fn | 16.000000 | MHz | |
| Mode of Oscillation | MO | AT Cut-Fundamental | | |
| Calibration Load Capacitance | CL | 12 | pF | |
| Calibration Tolerance | FL | ±10 | ppm | at 25℃±3℃ |
| Operating Temperature Range | TR | -20 to +70 | C | |
| Frequency Stability (Frequency Deviation over the Operating Temperature Range) | F/T | ±10 | ppm | Reference to the Frequency at 25℃ |
| Operating Drive Level | | 10 | μW | |
| Maximum Drive Level | | 100 | μW | |
| Equivalent Series Resistance | ESR | 60 | 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).



FL1600055

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Time

60~120 Sec 60~150 Sec

10 Sec

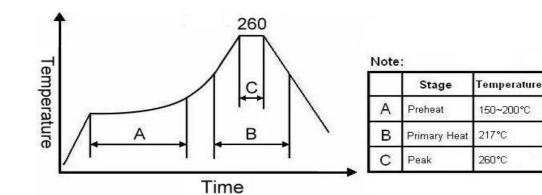
RELIABILITY SPECIFICATIONS

MECHANICAL AND ENVIRONMENTAL RATINGS:

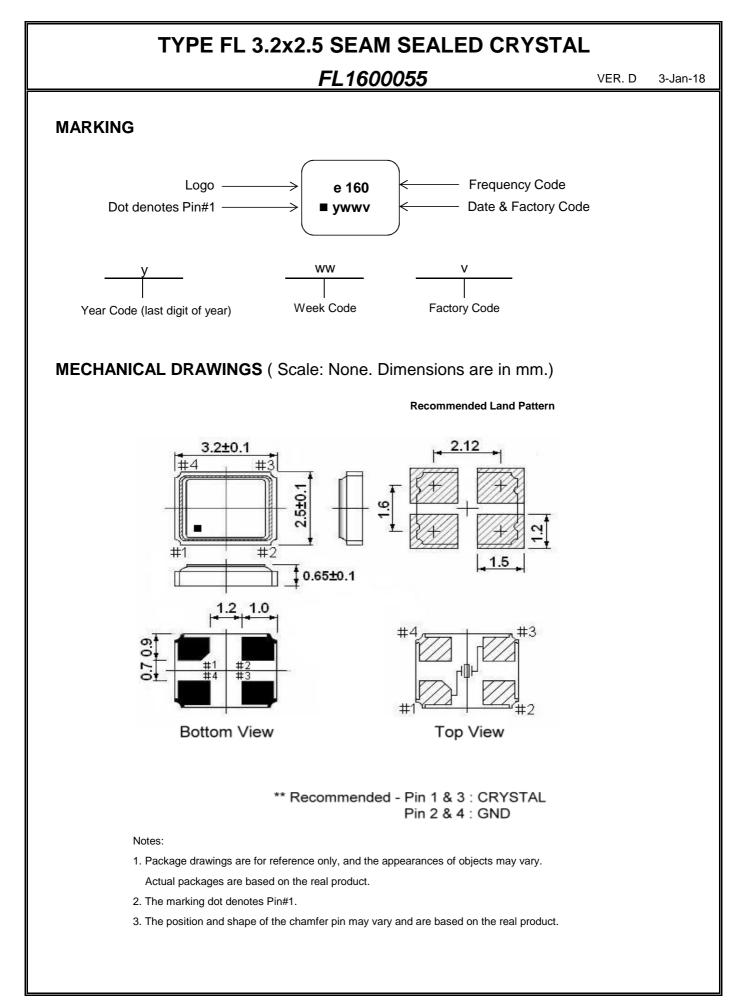
- a) FINE LEAK TEST: JESD22-A109 (Condition 1A)
- b) GROSS LEAK TEST: JESD22-A109 (Condition C)
- c) MOISTURE RESISTANCE: JESD22-A113
- d) SHOCK: JESD22-B104 (Condition B)
- e) SOLDERABILITY : (RoHS version): J-STD-002
- f) VIBRATION: JESD22-B103
- g) SOLVENT RESISTANCE: JESD22-B107
- h) RESISTANCE TO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





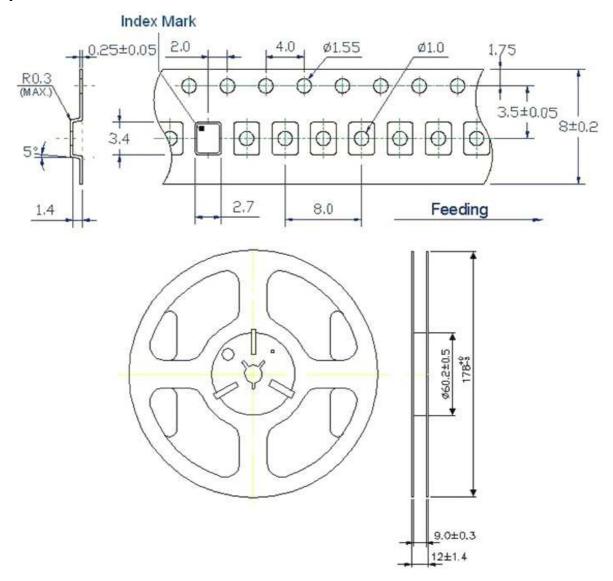




FL1600055

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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.



