

Diodes Incorporated



SPECIFICATION FOR APPROVAL

CUSTOMER

NOMINAL FREQUENCY

8.000000 MHz

TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL0800011Q

SPEC. NO. (P/N)

PRODUCT TYPE

CUSTOMER P/N

ISSUE DATE

VERSION

А

February 13, 2018

| APPROVED | PREPARED | QA |
|----------|----------|-----------|
| Brenda | Nikbi Lu | Dong Jang |

Diodes Incorporated

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- *Pb-free
- *RoHS Compliant
- *HF-Halogen Free
- *REACH Compliant
- *AEC-Q200 Compliant

| TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL |
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FL0800011Q

VER. A 13-Feb-18

VERSION HISTORY

| Version No. | Version Date | Description | Notes |
|----------------|-----------------|-----------------|-------|
| A | Feb.13,2018 | Initial Release | |
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TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL0800011Q

VER. A 13-Feb-18

ELECTRICAL SPECIFICATIONS

| ltem | Symbol | Specifications | Units | Notes |
|--|--------|--------------------|-------|------------------------------------|
| Nominal Frequency | Fn | 8.000000 | MHz | |
| Mode of Oscillation | MO | AT Cut-Fundamental | | |
| Calibration Load Capacitance | CL | 12 | pF | |
| Calibration Tolerance | FL | ±30 | ppm | at 25°C±3°C |
| Operating Temperature Range | TR | -40 to +125 | °C | |
| Frequency Stability (Frequency Deviation over the Operating Temperature Range) | F/T | ±60 | ppm | Reference to the Frequency at 25°C |
| Operating Drive Level | | 10 | μW | |
| Maximum Drive Level | | 100 | μW | |
| Equivalent Series Resistance | ESR | 600 | Ω | Max |
| Shunt Capacitance | C0 | 5 | pF | Мах |
| Aging at 25°C | | ±3 | ppm | Max, 1st year |
| Storage Temperature | | -55 to +125 | °C | |
| Insulation Resistance | | 500 | MΩ | Min |

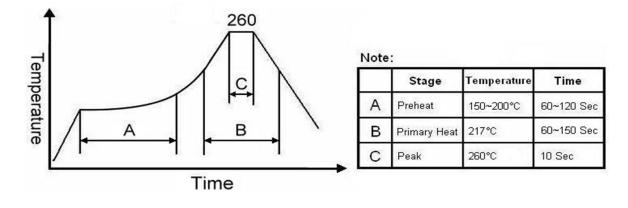
* This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb - Free).



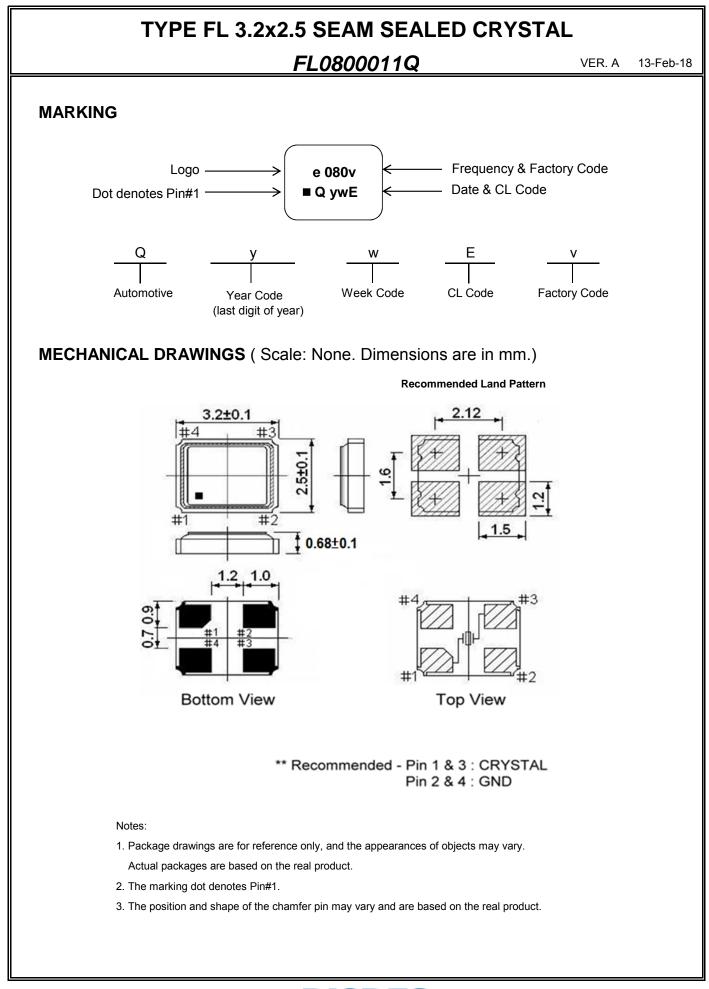
TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL

FL0800011Q

AEC-Q200 RELIABILITY TEST SPECIFICATIONS: 1. Initial 1.1 Physical Dimensions: JESD22, Method JB1-100 1.2 External Visual: MIL-STD-883, Method 2009 1.3 Freq. Vs. Temperature: Per Specification/Datasheet 2. Mechanical 2.1 Mechanical Shock: MIL-STD-202 Method 213 2.2 Vibration: MIL-STD-202 Method 204 2.3 Solderability: J-STD-002 2.4 Board Flex: AEC Q200-005 2.5 Terminal Strength (SMD): AEC Q200-006 3.Environmental 3.1 Temp Cycle: JESD22, Method JA-104 3.2 Resistance to Solder Heat: MIL-STD-202 Method 210 3.3 High Temperature Operating Life: MIL-STD-202, Method 108 3.4 High Temp Exposure: MIL-STD-202, Method 108 3.5 High Temp & High Humidity: MIL-STD-202, Method 103 3.6 Thermal Shock: MIL-STD-202, Method 107 SUGGESTED IR REFLOW PROFILE *As per IPC-JEDEC J-STD-020D

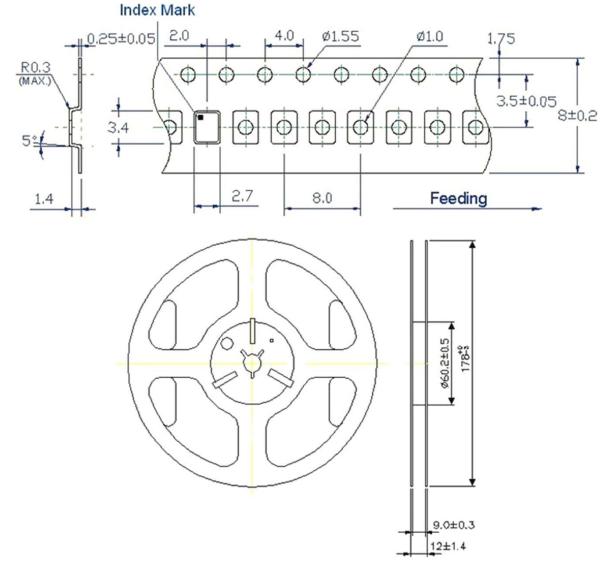






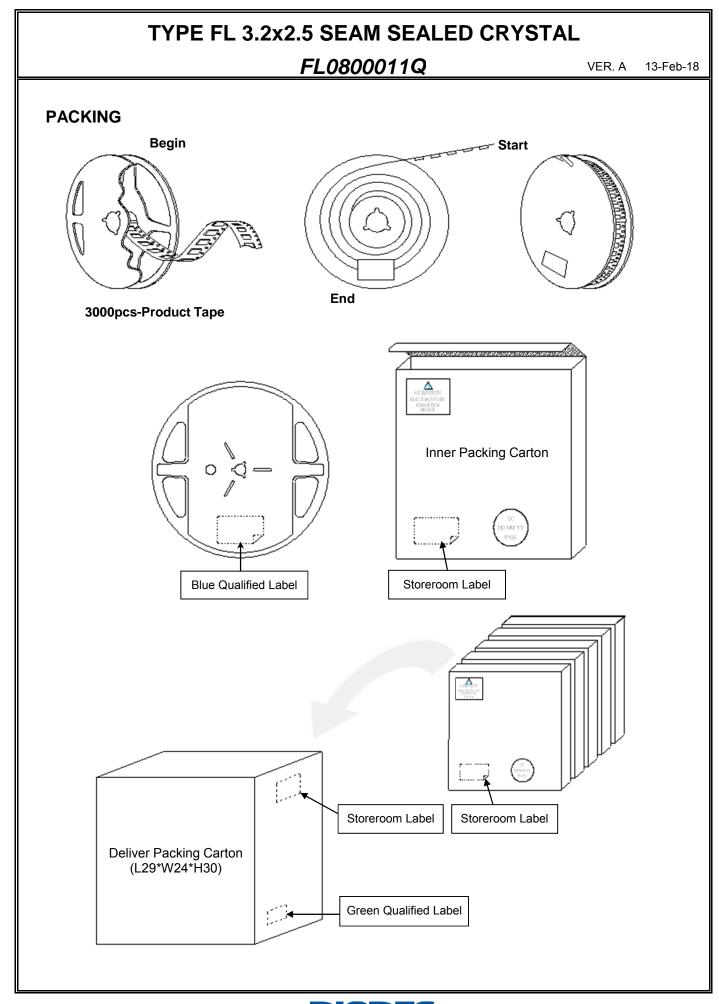


TYPE FL 3.2x2.5 SEAM SEALED CRYSTAL FL0800011Q VER. A 13-Feb-18 Tape & Reel Index Mark



- 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.





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