

| APPROVED | PREPARED | QA |
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Diodes Incorporated

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*Pb-free

*RoHS Compliant

- *HF-Halogen Free *REACH Compliant
- *AEC-Q200 Compliant

FY1600069Q

VER. B 3-May-18

VERSION HISTORY

| Version No. | Version Date | Description | Notes |
|----------------|-----------------|-----------------|-------|
| А | Jan.24,2011 | Initial Release | |
| В | May.3,2018 | Updated logo | |
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VER. B 3-May-18

ELECTRICAL SPECIFICATIONS

| ltem | Symbol | Specifications | Units | Notes |
|--|--------|--------------------|-------|------------------------------------|
| Nominal Frequency | Fn | 16.000000 | MHz | |
| Mode of Oscillation | MO | AT Cut-Fundamental | | |
| Calibration Load Capacitance | CL | 20 | pF | |
| Calibration Tolerance | FL | ±20 | ppm | at 25°C±3°C |
| Operating Temperature Range | TR | -40 to +85 | °C | |
| Frequency Stability (Frequency Deviation over the Operating 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 | 50 | Ω | Мах |
| Shunt Capacitance | C0 | 5 | pF | Мах |
| Aging at 25°C | | ±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).



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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

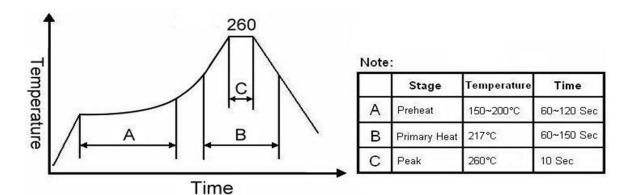
- 2.1 Mechanical Shock: MIL-STD-202 Method 213
- 2.2 Vibration: MIL-STD-202 Method 204
- 2.3 Solderability: J-STD-002
- 2.4 Board Flex: AEC Q200-005
- 2.5 Terminal Strength (SMD): AEC Q200-006

3.Environmental

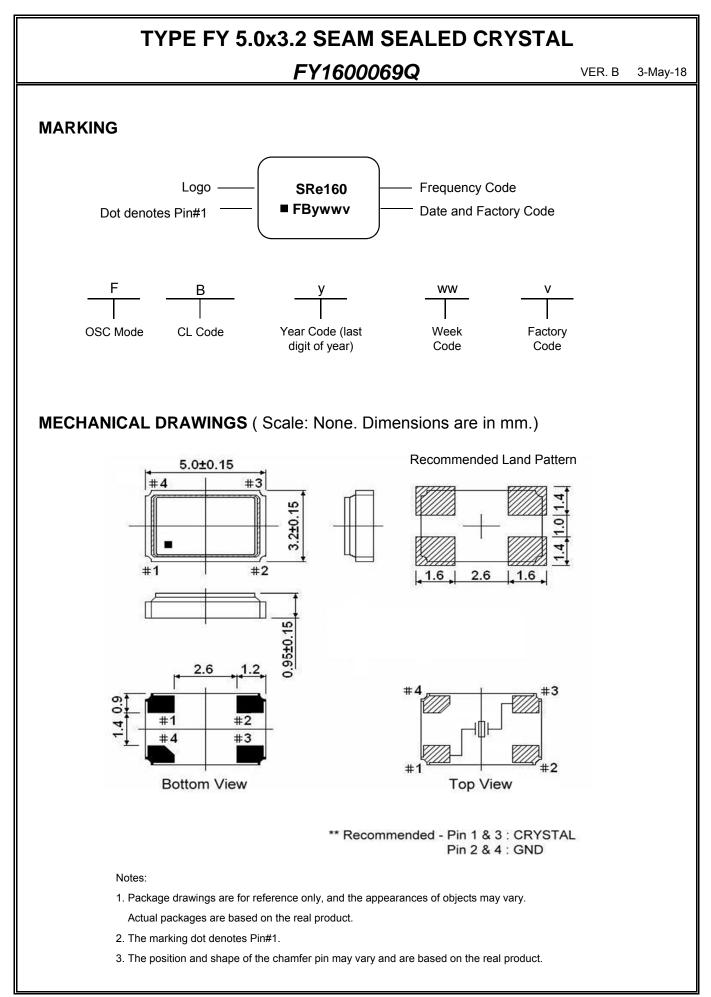
- 3.1 Temp Cycle: JESD22, Method JA-104
- 3.2 Resistance to Solder Heat: MIL-STD-202 Method 210
- 3.3 High Temperature Operating Life: MIL-STD-202, Method 108
- 3.4 High Temp Exposure: MIL-STD-202, Method 108
- 3.5 High Temp & High Humidity: MIL-STD-202, Method 103
- 3.6 Thermal Shock: MIL-STD-202, Method 107

SUGGESTED IR REFLOW PROFILE

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





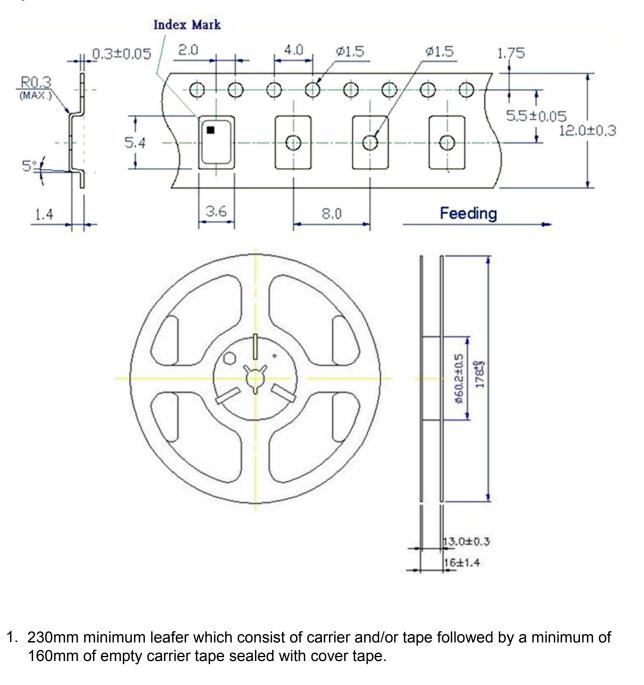




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Tape & Reel



2. 160mm minimum trailer of empty carrier tape sealed with cover tape.



