

## "SSG" series 32.768 KHz Surface Mount Crystal



**MERCURY**  
Since 1973

- ☐ RoHS compliant product
- ☐ Provide low cost timing to real time clocks and hand-held portable battery operated devices.
- ☐ Rugged high-temp plastic molded package for harsh environment.
- ☐ Withstand solder reflow. Tape and reel available.

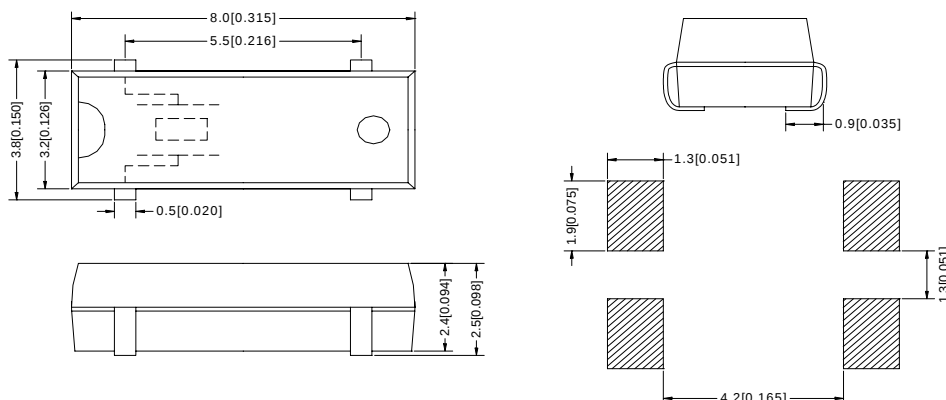


### Specifications

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| MEC Part No.                      | SSG-32.768K-12.5P, RoHS compliant                          |
| Nominal Frequency                 | 32.768 kHz                                                 |
| Crystal Cut                       | X-cut                                                      |
| Frequency Tolerance               | ±30 ppm at +25°C                                           |
| Turnover Temperature              | 25°C±5°C                                                   |
| Operating Temperature             | -40 to +80°C                                               |
| Frequency-Temperature Coefficient | -0.034 ppm±0.006 ppm/°C <sup>2</sup>                       |
| Load Capacitance                  | 12.5 pF                                                    |
| Motional Capacitance (Co)         | 0.003 pF typical                                           |
| Shunt Capacitance (C1)            | 1.35 pF max.                                               |
| Capacitance Ratio (Co/C1)         | 450 typical                                                |
| Equivalent Series Resistance      | 50 K ohms max.                                             |
| Drive Level                       | 1 uW max.                                                  |
| Insulation Resistance             | 500 MΩ min. at 100V±15V DC                                 |
| Aging                             | ±3 ppm per year max. at +25°C                              |
| Package Leak Rate                 | 1×10 <sup>-2</sup> μPam <sup>3</sup> /sec max.             |
| Shock Resistance                  | ±5 ppm max. at 3000Gx0.3 msec. half sine wave 3 directions |
| Storage Temperature               | -55 to +125°C                                              |
| Tape and Reel                     | 13" reel. 3000 pc per reel.                                |

RoHS Compliant Product  
by Mercury

### Package Dimensions and Suggested Soldering Pattern



**MERCURY** [www.mercury-crystal.com](http://www.mercury-crystal.com)

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