

# Glass Seal SMD Crystal



Model: FEG Series

RoHS Compliant

Rev. 12/5/2007

Page 1 of 2

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## • PART NUMBER [Learn More](#) - Internet Required

| Part Number         | Model Number | Frequency Range (MHz) |
|---------------------|--------------|-----------------------|
| 511-Frequency-xxxxx | FEG          | 7.3728 ~ 80.000       |

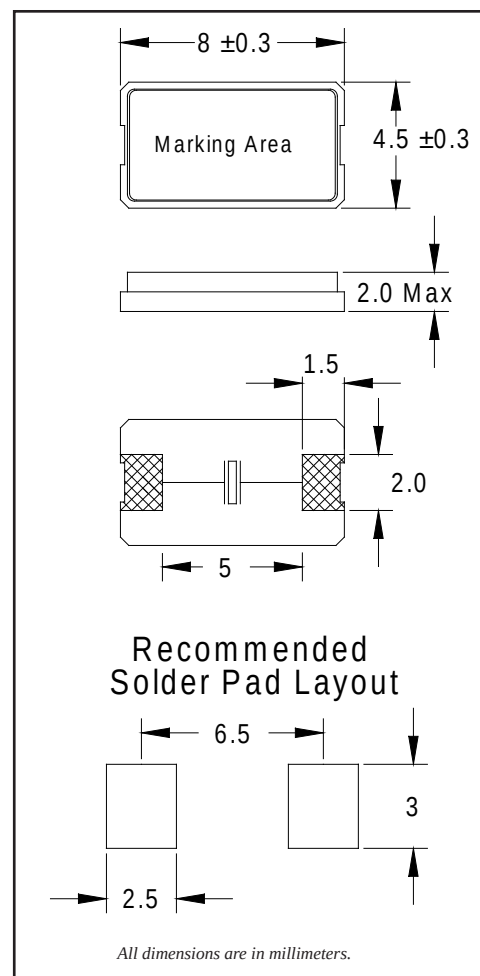
## • STANDARD SPECIFICATIONS<sup>1</sup>

| PARAMETERS                                                   | MAX (unless otherwise noted)           |
|--------------------------------------------------------------|----------------------------------------|
| Frequency Range (Fo)                                         | 7.3728 ~ 80.000 MHz                    |
| Frequency Tolerance @ 25°C                                   | ±50 PPM <sup>1</sup>                   |
| Frequency Stability, ref @ 25°C<br>Over Operating Temp Range | ±50 PPM <sup>1</sup>                   |
| Temperature Range                                            |                                        |
| Operating (TOPR)                                             | 10°C ~ +70°C <sup>1</sup>              |
| Storage (TSTG)                                               | -40°C ~ +85°C                          |
| Shunt Capacitance (Co)                                       | 7 pF                                   |
| Load Capacitance (CL)                                        | 10 pF ~ Series<br>(Customer Specified) |
| Drive Level                                                  | 0.1 mW                                 |
| Aging per year                                               | ±5 PPM                                 |
| Maximum Soldering Temp / Time                                | 260°C / 10 Seconds                     |
| Moisture Sensitivity Level (MSL)                             | 1                                      |
| Termination Finish                                           | Au                                     |

<sup>1</sup> Other stabilities & operating temperature ranges available.

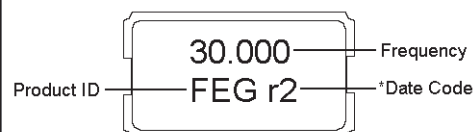
Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary.

The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies.



| Frequency Range (MHz) | Operating Mode | Max ESR Ω |
|-----------------------|----------------|-----------|
| 7.3728 ~ 10.000       | Fundamental    | 110       |
| 10.000+ ~ 12.000      | Fundamental    | 80        |
| 12.000+ ~ 37.500      | Fundamental    | 50        |
| 37.500+ ~ 80.000      | 3rd OT         | 70        |

## FEG Marking Identification



\* D/C Option - Year/Month and Week

Example: 'H2', H = August 2005, 2 = 2nd week in August 2005

| Year/Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2005       | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | L   | M   |
| 2006       | N   | P   | Q   | R   | S   | T   | U   | V   | W   | X   | Y   | Z   |
| 2007       | a   | b   | c   | d   | e   | f   | g   | h   | i   | j   | k   | l   |
| 2008       | n   | p   | q   | r   | s   | t   | u   | v   | w   | x   | y   | z   |
| 2009       | A   | B   | C   | D   | E   | F   | G   | H   | J   | K   | L   | M   |

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Page 2 of 2

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| • TAPE SPECIFICATIONS (millimeters) |      |     |     |     |      |     |              |
|-------------------------------------|------|-----|-----|-----|------|-----|--------------|
| MODEL                               | A    | B   | C   | D   | E    | F   | STD Reel QTY |
| FEG                                 | Ø1.5 | 4.0 | 8.0 | 7.5 | 16.0 | 2.0 | 1,000        |

| • REEL SPECIFICATIONS (millimeters) |     |       |       |       |      |      |     |
|-------------------------------------|-----|-------|-------|-------|------|------|-----|
| MODEL                               | G   | H     | I     | J     | K    | L    | M   |
| FEG                                 | 2.5 | Ø13.5 | Ø21.6 | Ø60.0 | Ø178 | 17.5 | 1.6 |

