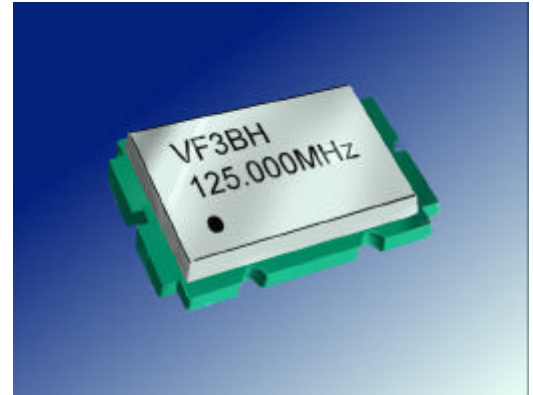


# Surface Mount Oscillator



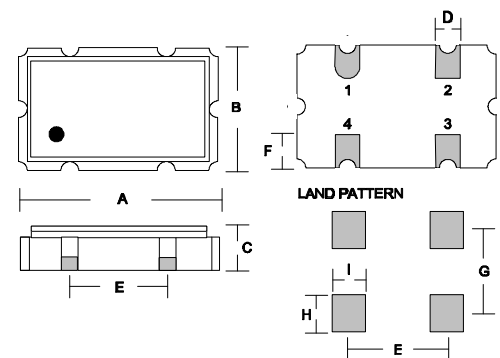
## ECM VF3 Series

- Wide Frequency Range
- Miniature Ceramic Package
- SMD Tri-state Oscillator
- Industrial Temperature Range Available



| Parameter           | VF3   |           |
|---------------------|---|-----------|
| Frequency Range     | 1.8MHz to 125.0MHz  |           |
| Frequency Stability | +/-20, +/-25, +/-50ppm to 50MHz   | Specify   |
|                     | 100ppm over 70MHz   |           |
| Supply Voltage      | 3.3V  |           |
| Supply Current      | 10mA to 25.0MHz<br>15mA to 50.0MHz<br>18mA to 67.0MHz<br>28mA to 125.0MHz                   | 15pf Load |
| Load                | 10LS-TTL or 15pF  |           |
| Duty Cycle          | 45/55 to 50.0MHz<br>40/60 over 50.0MHz  |           |
| Rise & Fall Times   | 10nS max  | 5ns Typ   |
| Logic "1" Level     | 0.9Vcc min  |           |
| Logic "0" Level     | 0.1Vcc max  |           |
| Enable Input        | Input High (>2.5V) or floating ACTIVE   |           |
| Disable Input       | Input LOW (<0.5V) INFINITE IMPEDENCE  |           |
| Start-up Time       | 10mS max  | 3mS Typ   |
| Enable Disable Time | 100nS   |           |
| Operating Temp      | -10 <sup>0</sup> C to +70 <sup>0</sup> C (-45 <sup>0</sup> to +85 <sup>0</sup> C) Available |           |

| Environmental & Mechanical |   |
|----------------------------|---|
| <b>Mechanical Shock</b>    | Mil STD 202 Method 213<br>Cond E                                  |
| <b>Thermal Shock</b>       | Mil STD 883 Method 1011<br>Cond A                                 |
| <b>Vibration</b>           | MIL-STD-883 Method 2007<br>Cond A                                 |
| <b>Soldering Condition</b> | 260 <sup>0</sup> C for 10s max:<br>230 <sup>0</sup> C for 90s max |
| <b>Hermetic Seal</b>       | Leak rate less than 5x10 <sup>-8</sup><br>Atm.cc/s of helium      |



**Part Numbering: VF3 B H 1 125.00M**

Series \_\_\_\_\_  
 Stability \_\_\_\_\_  
 S= 20ppm A= 25ppm  
 B= 50ppm Blank = 100ppm  
 Symmetry \_\_\_\_\_  
 H= 45/55 Blank= 40/60  
 Temperature Range \_\_\_\_\_  
 Blank= 0<sup>0</sup>C to +70<sup>0</sup>C  
 1= -40<sup>0</sup>C to +85<sup>0</sup>C  
 Frequency \_\_\_\_\_

| Pin      | 1        | 2   | 3   | 4   |
|----------|----------|-----|-----|-----|
| Function | Tristate | GND | O/P | Vcc |

| A    | B    | C    | D    | E    | F    | G    | H    |
|------|------|------|------|------|------|------|------|
| 7.50 | 5.00 | 2.00 | 1.39 | 5.07 | 1.39 | 3.98 | 1.39 |

Dimensions in mm

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