



ROHS-Compliant Product

# XO-25000 Series

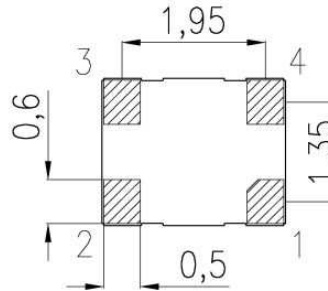
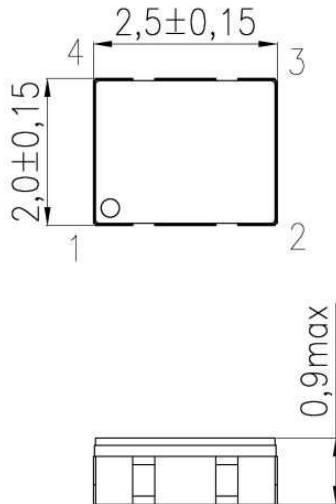


| 1. Specification  |   |
|---|---|
| Frequency range:  | 1.25 MHz ... 125 MHz  |
| Standard frequencies:   | 24; 26; 30; 40 MHz  |
| Supply voltage Vs:<br>3.3 V ± 5 %<br>2.5 V ± 5 %<br>1.8 V ± 5 %   | A<br>H<br>J   |
| Current consumption   | ≤ 15 mA   |
| Temperature range options<br>-10 °C to +60 °C:<br>-20 °C to +70 °C:<br>-40 °C to +85 °C:  | 1060<br>2070<br>4085  |
| Frequency stability options <sup>(1)</sup><br>≤ ± 20 ppm:<br>≤ ± 25 ppm<br>≤ ± 50 ppm:  | A<br>B<br>F   |
| Output voltage:<br>level:<br>load:<br>duty cycle:   | (LV)HCMOS<br>VOL < 10% VS, VOH > 90% VS<br>1 kOhm // 15 pF<br>45% ... 55% |
| RMS Phase Jitter (12 kHz - 20 MHz):   | ≤ 1 ps rms  |
| Output Enable / Disable<br>Enable:<br>Disable:  | High (≥ 70 % VS) or N.C.<br>Low (≤ 30 % VS)                               |
| Storage temperature range:  | -55 °C ... +125 °C  |
| Note <sup>(1)</sup> : overall frequency stability includes: Initial tolerance, 1st year aging, frequency stability vs. temperature, vs. supply voltage changes ± 5%, vs. load changes ±5% |   |
| 2. Environmental conditions   |   |
| According to KVG Product Qualification Procedure AA-QM-200  |   |
| 3. Marking  |   |
| Nominal frequency   |   |

|    |             |            |             |  |
|----|-------------|------------|-------------|--|
| 4  |             |            |             | <b>KVG Quartz Crystal Technology GmbH</b><br>P.O.Box 61<br>D-74924 Neckarbischofsheim<br>Tel. +49 (0) 7263 / 648-0<br>Fax. +49 (0) 7263 / 6196 |
| 3  |             |            |             |  |
| 2  |             |            |             |  |
| 1  |             | 15.12.2015 | Dannenmaier |  |
| ED | Description | Date       | Name        |  |

## 4. Case

Case style: BF207-0.9B

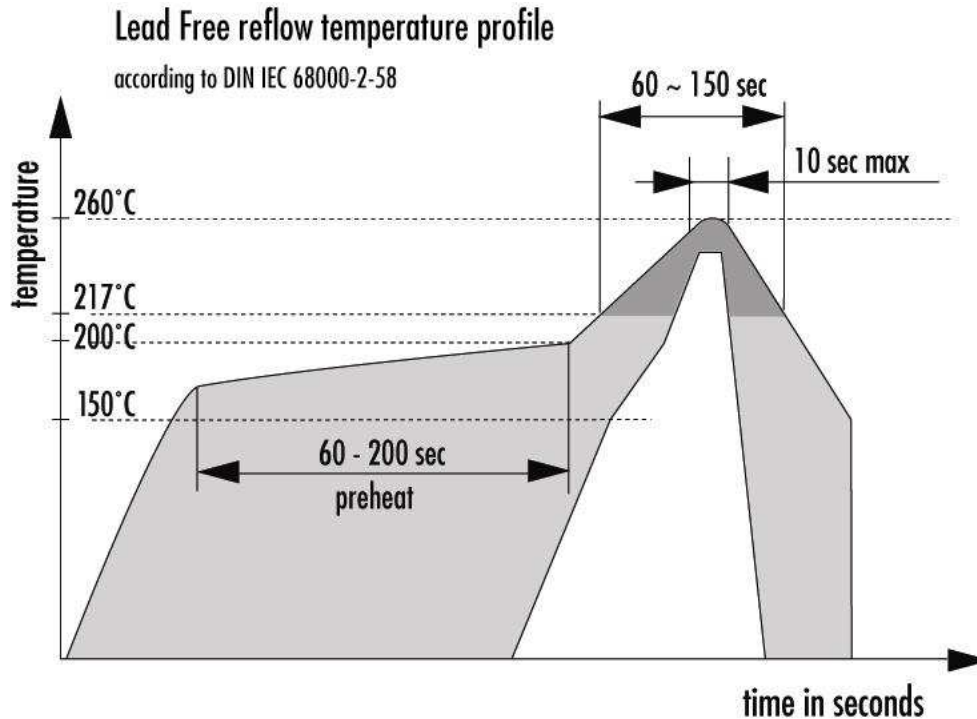


### Pin configuration

1. E/D control input
2. Ground, Case
3. RF output
4. Supply voltage  $V_s$

|    |             |            |             |  |
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| 2  |             |            |             |  |
| 1  |             | 15.12.2015 | Dannenmaier |  |
| ED | Description | Date       | Name        |  |

## 5. Reflow soldering profile



## 6. Ordering Information

| Type & Package code         | Supply voltage                   | Temperature range LOW/HIGH  | Frequency stability                       | RoHS compl. | Nominal frequency |
|-----------------------------|----------------------------------|---|---|-------------|-------------------|
| <b>XO-25:</b><br>BF207-0.9B | A: 3.3 V<br>H: 2.5 V<br>J: 1.8 V | <b>1060:</b> -10 / +60 °C<br><b>2070:</b> -20 / +70 °C<br><b>4085:</b> -40 / +85 °C | A: ± 20 ppm<br>B: ± 25 ppm<br>F: ± 50 ppm | -LF         | - XX.YYY MHz      |

Example: XO-25A2070B-LF-150.000MHz

|    |             |            |             |   |
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