



T-25000 Series



| 1. Specification | | | | |
|--|-------------|--|-------------|---|
| Frequency range: | | 13.0 ... 52.0 MHz | | |
| Supply Voltage V_S (nominal values $\pm 5\%$): +1.8 V: +2.5 V: +2.8 V: +3.0 V: +3.3 V: | | J G E D A | | |
| Current consumption $f < 26$ MHz: $f \geq 26$ MHz: | | ≤ 2.0 mA ≤ 2.5 mA | | |
| Temperature range options: 0 °C to +55 °C : -10 °C to +60 °C : -20 °C to +70 °C : -30 °C to +85 °C : -40 °C to +85 °C : | | 0055 1060 2070 3085 4085 | | |
| Frequency stability options: ± 0.5 ppm: ± 1.0 ppm: ± 1.5 ppm: ± 2.0 ppm: ± 2.5 ppm: | | J K N O P | | |
| Initial frequency tolerance ($T_A = +25$ °C; $V_C = +1.5$ V): 24 h after reflow ($T_{peak} = +260$ °C for 10 sec max): | | $\leq \pm 1.0$ ppm $\leq \pm 1.5$ ppm | | |
| Frequency stability vs. supply voltage changes $V_S \pm 5\%$: vs. load changes $\pm 10\%$: | | $\leq \pm 0.2$ ppm $\leq \pm 0.2$ ppm | | |
| Aging @ +40 °C: 1 st year: 10 years: | | $\leq \pm 1.0$ ppm $\leq \pm 5.0$ ppm | | |
| Frequency Control Options : Fixed frequency oscillator: ± 5 ppm: ± 10 ppm: | | X F T | | |
| Control voltage range V_C in case of $V_S = 1.8$ V other V_S | | +0.3 V to +1.5 V +0.4 V to +2.4 V | | |
| Transfer function / Linearity: | | positive / 10 % | | |
| 4 | | | | KVG Quartz Crystal Technology GmbH P.O. Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196 |
| 3 | | | | |
| 2 | | | | |
| 1 | | 18.12.2015 | Dannenmaier | |
| ED | Description | Date | Name | |



ROHS-Compliant Product

T-25000 Series



1. Specification continued

| | |
|---|---|
| Output signal : Level: Load: | Clipped Sinewave ≥ 0.8 V _{PP} 10 kOhm // 10 pF |
| Phase Noise 100 Hz: 1 kHz: 10 kHz: | (typical for 19.2 MHz) -115 dBc/Hz -135 dBc/Hz -148 dBc/Hz |
| Temperature Ranges Storage: | -55 °C to +125 °C |

2. Marking

Nominal frequency

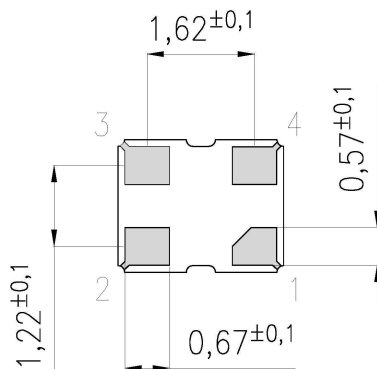
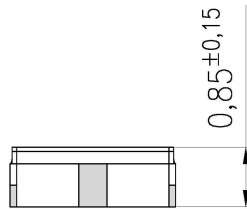
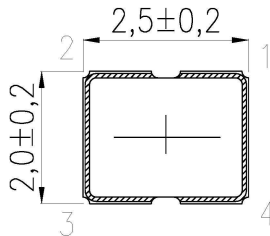
3. Environmental conditions

According to KVG Product Qualification Procedure AA-QM-200

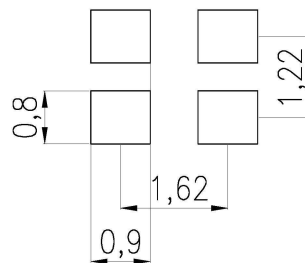
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4. Case

Case Style: BF207-0.9



Solder Pad Layout



Pin configuration

1. GND (TCXO) or Control voltage V_C (VCTCXO)
2. GND, Case
3. RF output
4. Supply voltage V_S

Moisture Sensitivity Level: 1

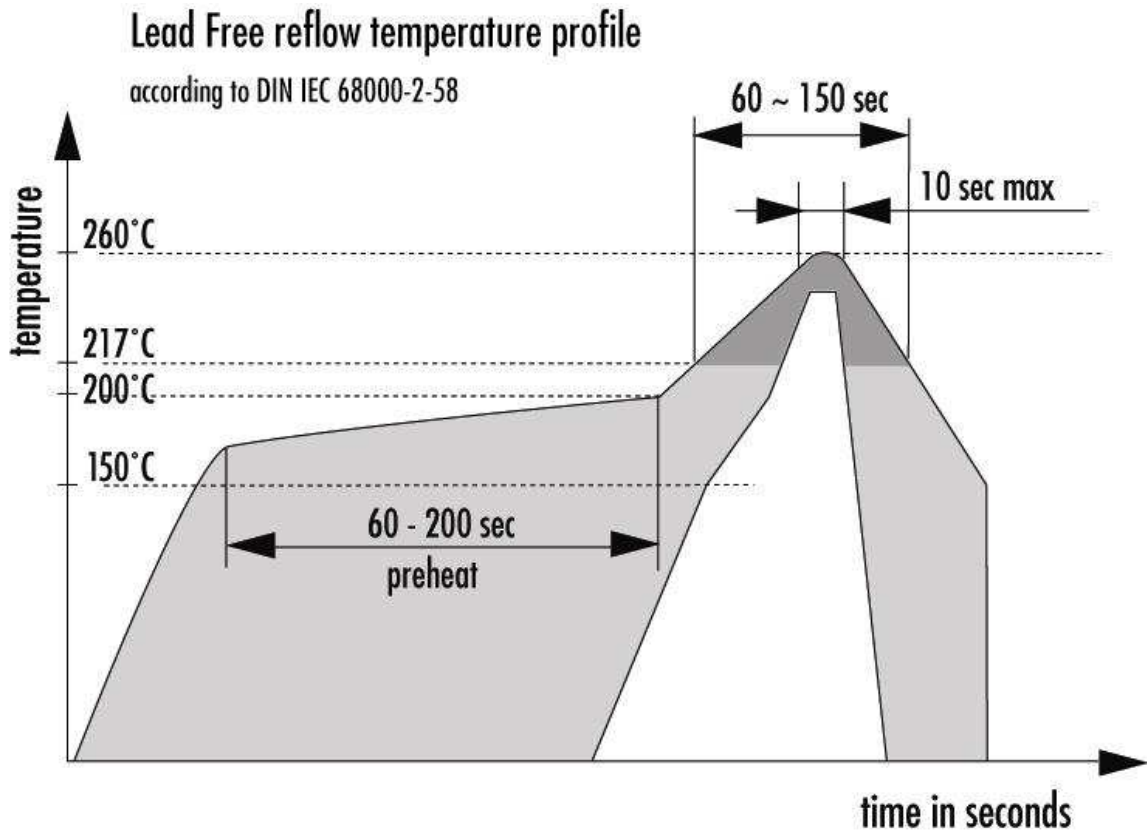
**Termination finish: Ni-Au
(0.5 to 1.5 μm Gold over Nickel)**

Base Material: copper alloy

| | | | | |
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5. Reflow Soldering Profil



6. Ordering Information

| Type & Package code | Supply voltage | Temperature range LOW/HIGH | Freq. stability | Freq. Tuning Range | RoHS compl. | Nominal frequency |
|---------------------|----------------|--|-----------------|--------------------|-------------|-------------------|
| T-25: BF-207-0.9 | A...J: | 2070: -20 / +70 °C 4085: -40 / +85 °C | J... P | X...T | -LF | - XX.YYY MHz |

Example: T-25A2070JX-LF-26.000 MHz

| | | | | |
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