



ROHS-Compliant Product

**VCXO-S627-LF****1. Specification**

|  |   |
|--|---|
| Nominal Frequency @ $V_c = 1.65 \text{ V}$ , $T = 25 \text{ }^\circ\text{C}$ :   | 76.80 MHz   |
| Frequency stability : <ul style="list-style-type: none"><li>- v.s. temperature range <math>-40 \text{ }^\circ\text{C}</math> to <math>+85 \text{ }^\circ\text{C}</math>:</li><li>- nominal frequency tolerance (<math>V_c=1.65 \text{ V}</math>, <math>T=25 \text{ }^\circ\text{C}</math>):</li><li>- vs. supply voltage changes <math>V_s \pm 5 \%</math>:</li><li>- vs. load changes <math>\pm 10 \%</math>:</li></ul> | $\leq \pm 20 \text{ ppm}$<br>$\leq \pm 10 \text{ ppm}$<br>$\leq \pm 3 \text{ ppm}$<br>$\leq \pm 1 \text{ ppm}$  |
| Aging at $25 \text{ }^\circ\text{C}$ :   | $\leq \pm 3 \text{ ppm / year}$   |
| Frequency control range:   | $\geq \pm 80 \text{ ppm}$   |
| Control voltage $V_C$ :  | 0.3 V to 3.0 V  |
| Transfer function / Linearity:   | positive / 10 %   |
| Control voltage input impedance:   | $\geq 1 \text{ MOhm}$   |
| Modulation Bandwidth (-3 dB cut-off frequency):  | $\geq 10 \text{ kHz}$   |
| Supply voltage $V_S$ :   | $3.3 \text{ V} \pm 5 \%$  |
| Current consumption:   | $\leq 70 \text{ mA}$  |
| Output voltage :<br>load:<br>duty cycle:<br>rise / fall time (20% to 80%)  | LVPECL<br>50 Ohm<br>45% / 55%<br>1 ns   |
| Output E/D function<br>Control input (pin 2) HIGH:<br>Control input (pin 2) LOW or not connected:  | Outputs Disabled<br>Outputs Enabled   |
| Phase noise (typical):<br>10 Hz:<br>100 Hz:<br>1 kHz:<br>10 kHz:<br>100 kHz:<br>1 MHz  | $\leq -75 \text{ dBc / Hz}$<br>$\leq -102 \text{ dBc / Hz}$<br>$\leq -132 \text{ dBc / Hz}$<br>$\leq -152 \text{ dBc / Hz}$<br>$\leq -157 \text{ dBc / Hz}$<br>$\leq -157 \text{ dBc / Hz}$ |
| Temperature ranges<br>Operating:<br>Storage:   | $-40 \text{ }^\circ\text{C} \dots +85 \text{ }^\circ\text{C}$<br>$-50 \text{ }^\circ\text{C} \dots +105 \text{ }^\circ\text{C}$   |

|    |                     |          |            |   |
|----|---------------------|----------|------------|---|
| 4  |                     |          |            | <b>KVG Quartz Crystal Technology GmbH</b><br><b>P.O. Box 61</b><br><b>D-74924 Neckarbischofsheim</b><br>Tel. +49 (0) 7263 / 648-0<br>Fax. +49 (0) 7263 / 6196 |
| 3  | Phasenoise          | 22.08.14 | J. Mueller |   |
| 2  | Current consumption | 21.12.10 | M. Zupan   |   |
| 1  |                     | 26.10.10 | M. Zupan   |   |
| ED | Description         | Date     | Name       |   |



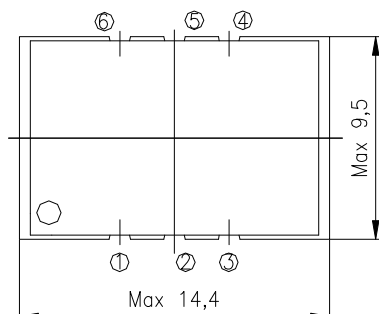
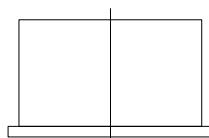
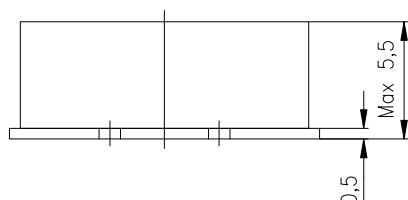
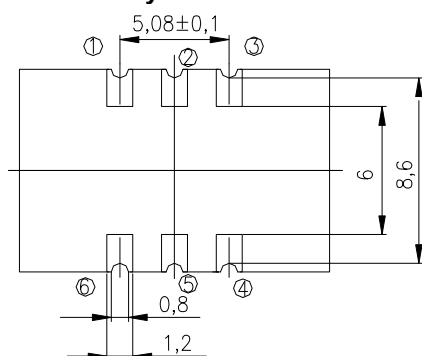
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**VCXO-S627-LF****2. Environmental conditions**

According to KVG Product Qualification Procedure AA-QM-200

**3. Marking**

1. ww KVG yy
2. VCXO-Sxxx-LF
3. 76.80MHz

**4. Case****Case style: BF-188-5.5A****1.Pin configuration**

1. Control voltage  $V_C$
2. Output Enable/Disable
3. Ground case
4. RF Output
5. Complementary RF Output
6. Supply voltage  $V_S$

|    |                     |          |            |   |
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| 2  | Current consumption | 21.12.10 | M. Zupan   | <b>D-74924 Neckarbischofsheim</b>         |
| 1  |                     | 26.10.10 | M. Zupan   | Tel. +49 (0) 7263 / 648-0                 |
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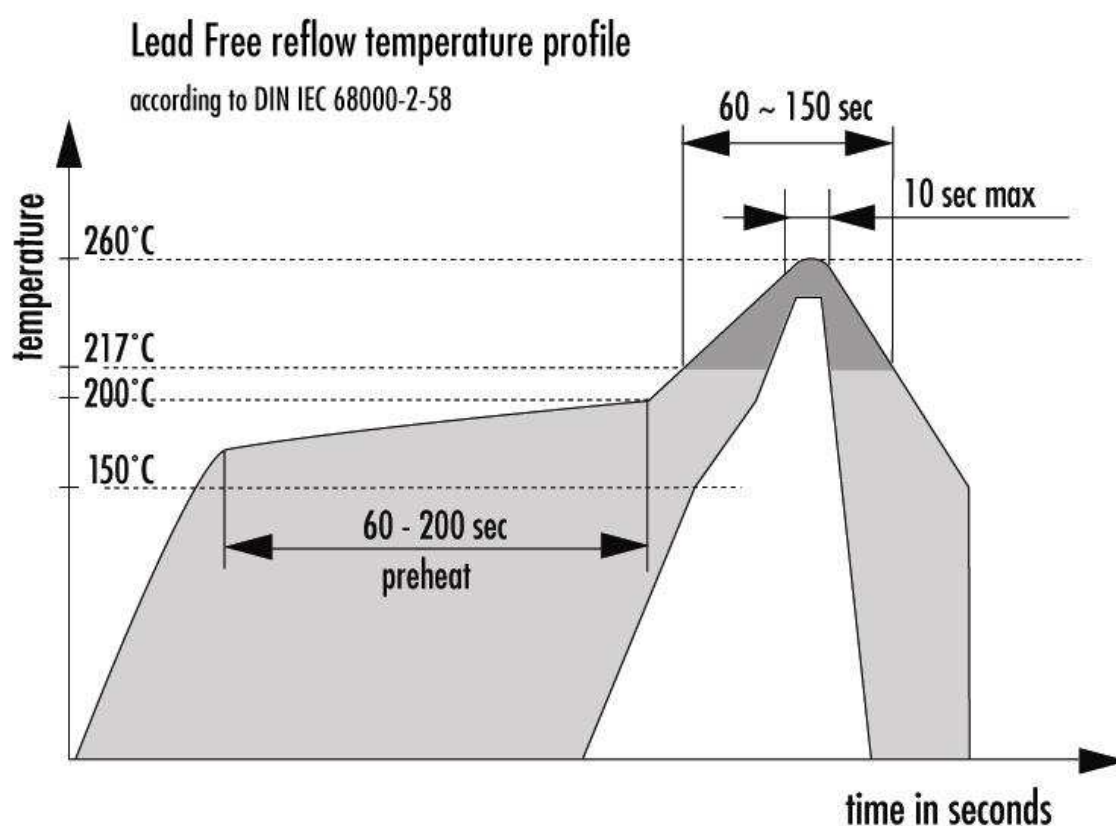
# VCXO-S627-LF



## 5. ROHS Info

Moisture Sensitivity Level: 2  
Termination finish: AuNi  
Max. reflow temperature: 260°C

## 6. Soldering profile



|    |                     |          |            |   |
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