



VCXO-S609-LF-2



1. Specification	
Nominal Frequency @ $V_c = 1.65\text{ V}$, $T = 25\text{ °C}$:	96.0 MHz
Frequency stability : - v.s. temperature range -40 °C to $+85\text{ °C}$: - nominal frequency tolerance ($V_c = 1.65\text{ V}$, $T = 25\text{ °C}$): - vs. supply voltage changes $V_s \pm 5\%$: - vs. load changes $\pm 10\%$:	$\leq \pm 20\text{ ppm}$ $\leq \pm 10\text{ ppm}$ $\leq \pm 3\text{ ppm}$ $\leq \pm 1\text{ ppm}$
aging at 25 °C :	$\leq \pm 2\text{ ppm} / 1^{\text{st}}\text{ year}$ $\leq \pm 10\text{ ppm over 15 years}$
Frequency control range:	$\geq \pm 50\text{ ppm}$, $\leq \pm 150\text{ ppm}$
Control voltage V_c :	0.3 to 3.0 V
Transfer function / Linearity:	positive $5\text{ kHz/V} \pm 25\%$ between $\pm 50\text{ ppm operational pulling range}$
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:	$\leq 30\text{ mA}$
Output voltage : load: duty cycle:	(LV)HCMOS $45 / 55\%$ $1\text{ kOhm} // 15\text{ pF}$
Output E/D function Control input (pin 2) HIGH: Control input (pin 2) LOW or not connected:	Outputs Disabled Outputs Enabled
Phase noise: 10 Hz: 100 Hz: 1 kHz: 10 kHz: 100 kHz:	$\leq -70\text{ dBc} / \text{Hz}$ $\leq -100\text{ dBc} / \text{Hz}$ $\leq -125\text{ dBc} / \text{Hz}$ $\leq -145\text{ dBc} / \text{Hz}$ $\leq -150\text{ dBc} / \text{Hz}$
Non and subharmonics: Spurious:	$\leq -100\text{ dBc}$ $\leq -100\text{ dBc}$
Temperature ranges Operating: Operable: Storage:	$-40\text{ °C} \dots +85\text{ °C}$ $-45\text{ °C} \dots +105\text{ °C}$ $-45\text{ °C} \dots +105\text{ °C}$

4				KVG Quartz Crystal Technology GmbH P.O. Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
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2	„Preliminary“ removed	16.04.18	J. Müller	
1	Identical to VCXO-S609-LF, diff. crystal	11.08.16	J. Müller	
ED	Description	Date	Name	

2. Environmental conditions

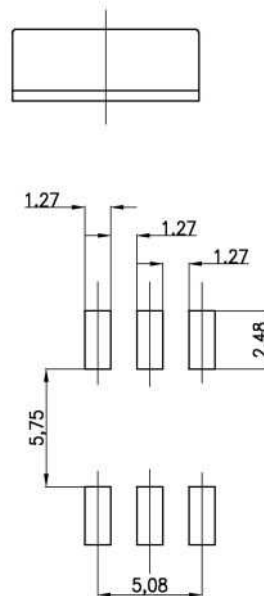
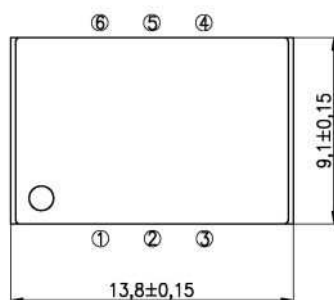
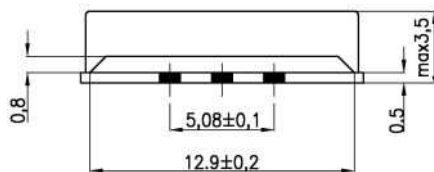
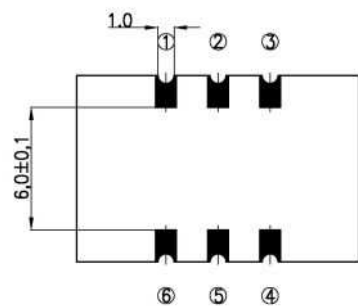
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

Manufacturer's name, date code (week/year); Specification; Nominal frequency

4. Case

Case style: BF-157-3.5



1. Pin configuration

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

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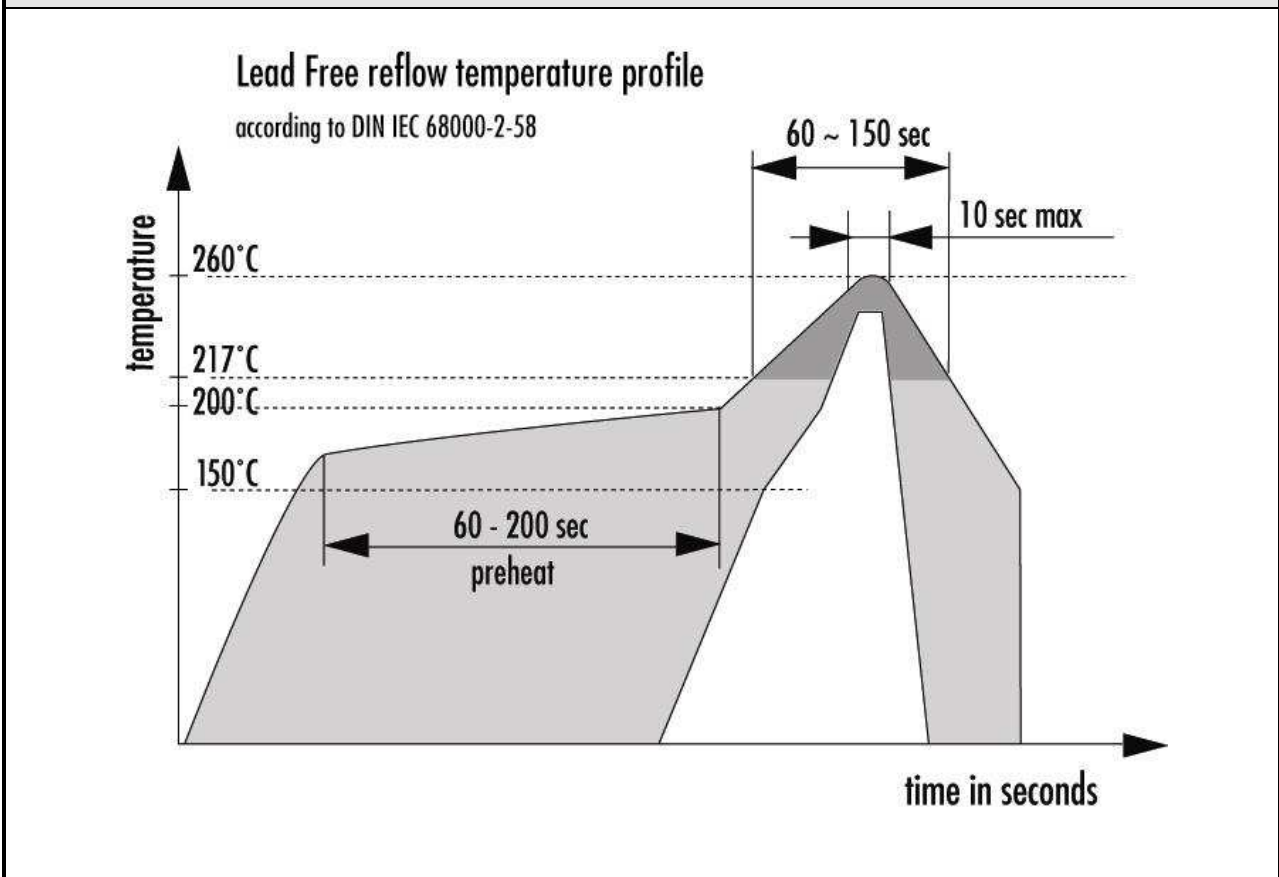
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5. ROHS Info

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

6. Soldering profile



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