



ROHS-Compliant Product

VCXO-S602-LF



1. Specification (Preliminary)

Nominal Frequency @ $V_c = 1.65 \text{ V}$, $T = 25^\circ \text{C}$:	61.44; 122.880; 153.600 MHz
Frequency stability : <ul style="list-style-type: none">- v.s. temperature range -40°C to $+85^\circ \text{C}$:- nominal frequency tolerance ($V_c = 1.65 \text{ V}$, $T = 25^\circ \text{C}$):- 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:	$\geq \pm 60 \text{ ppm}$, $\leq \pm 150 \text{ ppm}$
Control voltage V_C :	0.3 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:	$\leq 80 \text{ mA}$
Output voltage : load: duty cycle:	LVPECL 50 Ohm 45% / 55%
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: Storage:	$-40^\circ \text{C} \dots +85^\circ \text{C}$ $-50^\circ \text{C} \dots +90^\circ \text{C}$

4				KVG Quartz Crystal Technology GmbH P.O. Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
3				
2	Control voltage input impedance	30.07.10	M. Zupan	
1		01.09.09	M. Zupan	
ED	Description	Date	Name	



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2. Environmental conditions

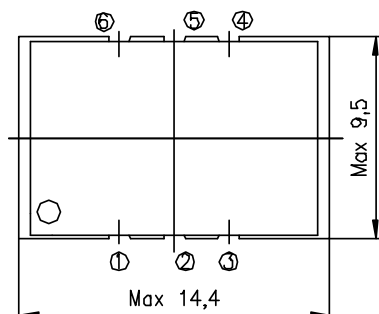
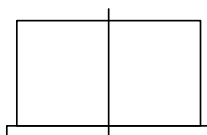
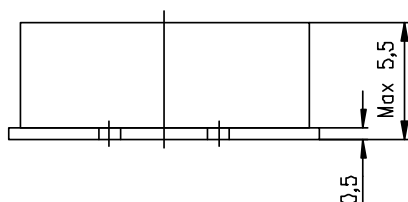
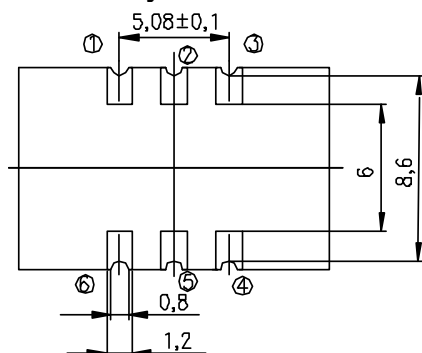
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

1. ww KVG yy
2. VCXO-S602-LF
3. Frequency (MHz)

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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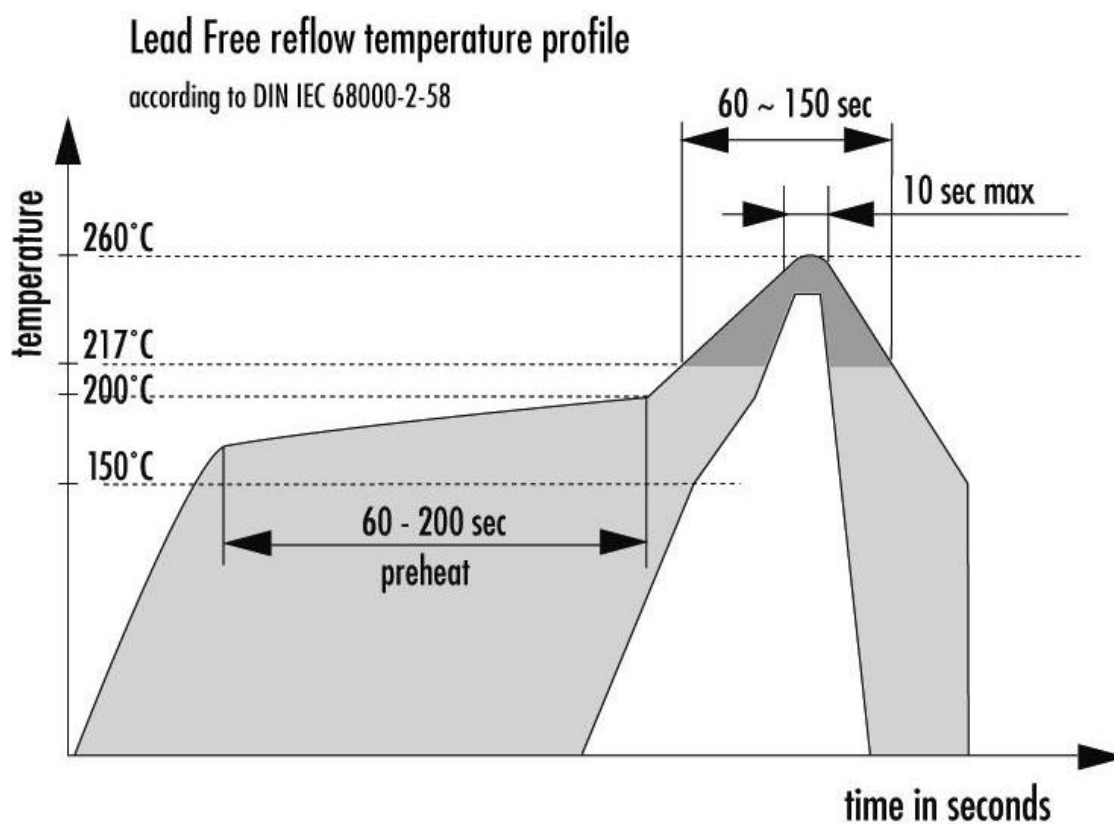
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5. ROHS Info

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

6. Soldering profile



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