



ROHS-Compliant Product

# OCXO A100 Series



1. Specification						
Type:	A101	A121	A111	A102	A122	A112
Frequency range:	5 ... 20 MHz					
Standard Frequencies:	5.0; 10.0; 13.0; 16.384 MHz					
Frequency stability in the temperature range - 25°C . + 70°C:	$< \pm 5 \times 10^{-8}$		$< \pm 1 \times 10^{-7}$			
Frequency stability vs. supply voltage changes $U_B \pm 5\%$ : vs. load changes $\pm 5\%$ :	$< \pm 5 \times 10^{-9}$ $< \pm 5 \times 10^{-9}$					
Aging per day: per year after 30 days of operation:	$\pm 1 \times 10^{-9}$ / day $\pm 5 \times 10^{-7}$ / year					
Frequency correction external trimmer: Option U:	$\pm 3$ ppm by external trimmer 20 kOhm $\pm 3$ ppm by ext. voltage 0 ... 4 V					
Supply voltage $U_B$ :	12 V $\pm 10\%$					
Power consumption: @ - 25°C: @ + 25°C: @ + 70°C: during warm-up:	$\leq 2.2$ W $\leq 1.0$ W $\leq 0.6$ W $\leq 3.0$ W					
Output voltage : type level min: High; Low voltage: load : duty cycle:	Sinus 3V <sub>pp</sub> - 500 Ω -	Sinus 0dBm - 50 Ω -	HCMOS 4; 0.4V - 40/60%	Sinus 3V <sub>pp</sub> - 500 Ω -	Sinus 0dBm - 50 Ω -	HCMOS 4; 0.4V - 40/60%
Phase noise: 100 Hz: 1 kHz: 10 kHz:	-120 dBc / Hz -140 dBc / Hz -150 dBc / Hz					

4				<b>KVG Quartz Crystal Technology GmbH</b> P.O.Box 61 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
3				
2				
1	OCXO-A100 series	09.07.96	H.-J. Herzog	
ED	Description	Date	Name	



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Warm-up time @ - 25°C: @ + 25°C:	< 12 min. < 5 min.
Temperature ranges Operating: Operable: Storage:	-25°C ... + 70°C -30°C ... + 75°C -55°C ... + 85°C

## 2. Environmental conditions

According to KVG Product Qualification Procedure AA-QM-200

## 3. Marking

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

## 4. Case

<p><b>Case style: BF-20</b></p> <p>IEC 4902:1988 DIN IEC 4902:1988:CO-08</p>	<p><b>1.Pin configuration</b></p> <ol style="list-style-type: none"> <li>1. Trimmer, SL</li> <li>2. Trimmer, CW</li> <li>3. Supply voltage <math>U_B</math></li> <li>4. RF-output</li> <li>5. Ground, case, trimmer</li> </ol> <p><b>Option U</b></p> <ol style="list-style-type: none"> <li>1. Pulling voltage <math>U_Z</math></li> <li>2. N.C.</li> <li>3. Supply voltage <math>U_B</math></li> <li>4. RF-output</li> <li>5. Ground, case,</li> </ol>
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