



# XO-2070 Series

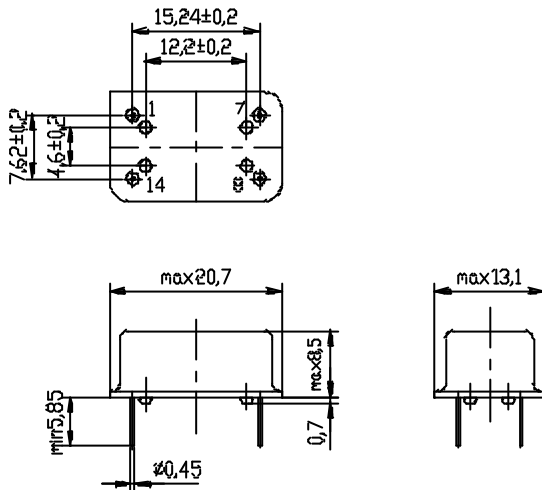


1. Specification	
Nominal Frequency:	25 kHz to 100 MHz
Nominal frequency tolerance, T = 25 ± 3°C:	< ± 10 ppm
Frequency stability in the temperature range - 20°C to + 70°C: vs. supply voltage changes UB ± 5 %: vs. load changes: (1 to 10 HCMOS for f < 40 MHz) (1 to 5 HCMOS and f ≥ 40 MHz)	< ± 10 ppm < ± 3 ppm < ± 2 ppm
Aging:	± 5 ppm / first year ± 2 ppm following years
Supply voltage UB:	5 V ± 5 %
Current consumption with load 1 kOhm // 15 pF f < 40 MHz: f ≥ 40 MHz:	≤ 25 mA ≤ 35 mA
Output voltage : load : load with Option A for f < 26 MHz: duty cycle : rise time, fall time for f < 40 MHz: rise time, fall time for f ≥ 40 MHz:	HCMOS Low < 1.0 V; High > 4.0 V 1 kOhm // 15 pF 1 kOhm // 50 pF 40 / 60 % 8 ns 5 ns
Temperature ranges Operating: Operable: Storage:	-20°C ... + 70°C -25°C ... + 75°C -40°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	Aging	30.04.96	H.-J. Herzog	<b>KVG Quartz Crystal Technology GmbH</b> <b>P.O.Box 61</b> <b>D-74924 Neckarbischofsheim</b> Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
7	Current consumption for f > 40MHz	13.12.99	M. Zupan	
6	Qualification procedure	06.10.98	H.-J. Herzog	
5	Aging ± 2 ppm following years	26.11.96	H.-J. Herzog	
ED	Description	Date	Name	

## 4. Case

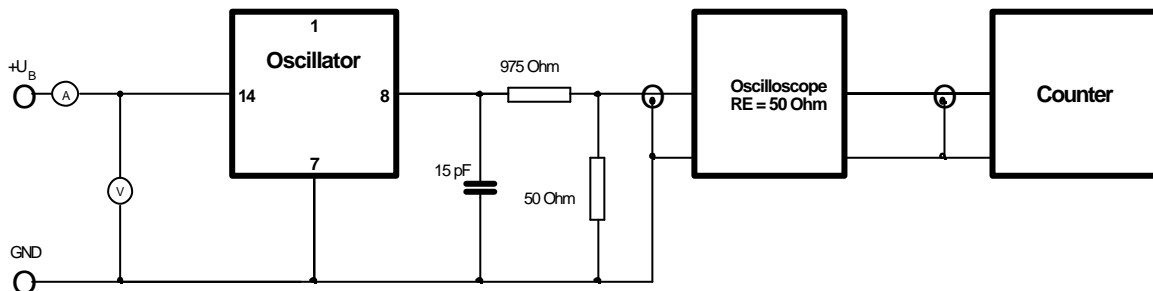
Case style: BF-100



1.Pin configuration

- 1. N.C.
- 7. Ground, case
- 8. RF-output
- 14. Supply voltage

## 5. Test circuit



4	Aging	30.04.96	H.-J. Herzog	<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
7	Current consumption for $f > 40\text{MHz}$	13.12.99	M. Zupan	
6	Qualification procedure	06.10.98	H.-J. Herzog	
5	Aging $\pm 2$ ppm following years	26.11.96	H.-J. Herzog	
ED	Description	Date	Name	