



ROHS-Compliant Product

# O-7000SC Series



1. Specification (preliminary)		
Frequency range:	10 ... 100 MHz	
Type:	O-7500SC	O-7300SC
Supply voltage $V_S$ :	+5.0 V $\pm$ 5 %	+3.3 V $\pm$ 5 %
Frequency stability vs. temperature options:		
$\leq \pm 1 \times 10^{-8}$ vs. 0 °C to +50 °C:	755x	735x
$\leq \pm 2 \times 10^{-8}$ vs. -10 °C to +60 °C:	756x	736x
$\leq \pm 3 \times 10^{-8}$ vs. 0 °C to +70 °C:	757x	737x
$\leq \pm 5 \times 10^{-8}$ vs. -20 °C to +70 °C:	758x	738x
$\leq \pm 1 \times 10^{-7}$ vs. -40 °C to +85 °C:	759x	739x
Aging stability option (after 30 days of operation)		
$\leq \pm 5 \times 10^{-9}$ / day; $\leq \pm 5 \times 10^{-7}$ / year:	75x1	73x1
$\leq \pm 2 \times 10^{-9}$ / day; $\leq \pm 2 \times 10^{-7}$ / year:	75x2	73x2
Frequency stability vs. supply voltage changes $V_S \pm 5\%$ : vs. load changes $\pm 10\%$ :	$\leq \pm 5.0 \times 10^{-9}$ $\leq \pm 2.0 \times 10^{-9}$	
Frequency control by external tuning voltage:	$\geq \pm 1.5$ ppm	
Tuning voltage range:	+0.5 V to +4.5 V	+0.3 V to +3.0 V
Transfer function / Linearity:	Positive / < 10 %	
Power consumption @ +25 °C steady state: during warm-up:	$\leq 1.0$ W $\leq 3.0$ W	
Warm-up time: (for a typical accuracy of $< \pm 5 \times 10^{-8}$ @ +25 °C referred to final frequency after 1 hour)	$\leq 5$ min	
Output voltage / Load Option H: Option S:	(LV)HCMOS / 1 kOhm // 15 pF Sinewave / > +3 dBm / 50 Ohm	
Phase noise (typical for 10 MHz):		
10 Hz:	$\leq -95$ dBc / Hz	
100 Hz:	$\leq -130$ dBc / Hz	
1 kHz:	$\leq -145$ dBc / Hz	
10 kHz:	$\leq -150$ dBc / Hz	
Storage temperature range:	-45 °C ... +90 °C	



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## 2. Environmental conditions

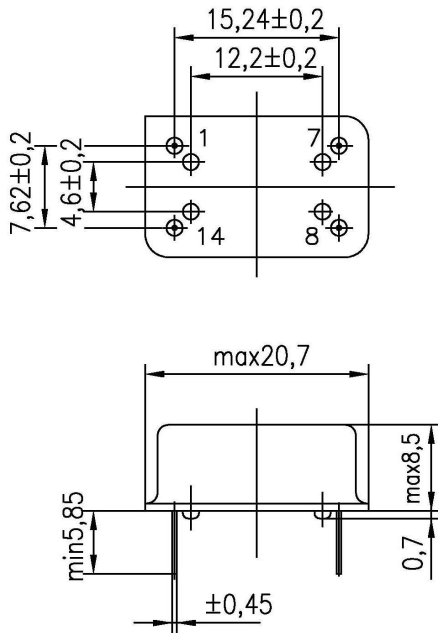
According to KVG Product Qualification Procedure AA-QM-200

## 3. Marking

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

## 4. Case

### BF100-8.5



### 1. Pin configuration

- 1. Control voltage  $V_C$
- 7. Ground, case
- 8. RF output
- 14. Supply voltage  $V_S$