ROHS-Compliant Product

O-7000AT Series

1. Specification

Frequency range:	10 ... 100 MHz	
Type:	**O-7500AT**	**O-7300AT**
Supply voltage V_S:	**+5.0 V ± 5 %**	**+3.3 V ± 5 %**
Frequency stability vs. temperature options:		
≤ ± 3 x 10^{-8} vs. 0 °C to +50 °C:	**750x**	**730x**
≤ ± 5 x 10^{-8} vs. –10 °C to +60 °C:	**751x**	**731x**
≤ ± 1 x 10^{-7} vs. 0 °C to +70 °C:	**752x**	**732x**
≤ ± 1 x 10^{-7} vs. –20 °C to +70 °C:	**753x**	**733x**
≤ ± 2 x 10^{-7} vs. –40 °C to +85 °C:	**754x**	**734x**
Aging stability option (after 30 days of operation)		
≤ ± 1 x 10^{-8} / day; ≤ ± 5 x 10^{-7} / year:	**75x1**	**73x1**
≤ ± 5 x 10^{-9} / day; ≤ ± 3 x 10^{-7} / year:	**75x2**	**73x2**
Frequency stability vs. supply voltage changes V_S ± 5 %: vs. load changes ± 10 %:	≤ ± 1.0 x 10^{-8} ≤ ± 5.0 x 10^{-9}	
Frequency control by external tuning voltage :	≥ ± 4 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 steady state @ +25 °C: during warm-up:	 ≤ 1.0 W ≤ 3.0 W	
Warm-up time: (for a typical accuracy of < ± 1 x 10^{-7} @ +25 °C referred to final frequency after 1 hour)	≤ 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: 100 Hz: 1 kHz: 10 kHz:	 ≤ -90 dBc / Hz ≤ -125 dBc / Hz ≤ -140 dBc / Hz ≤ -150 dBc / Hz	
Storage temperature range:	-45 °C to +90 °C	

ED	Description	Date	Name
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3			
2			
1		21.06.07	Rudolph

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Fax. +49 (0) 7263 / 6196

Subject to technical modification

O-7000AT Series

2. Environmental conditions

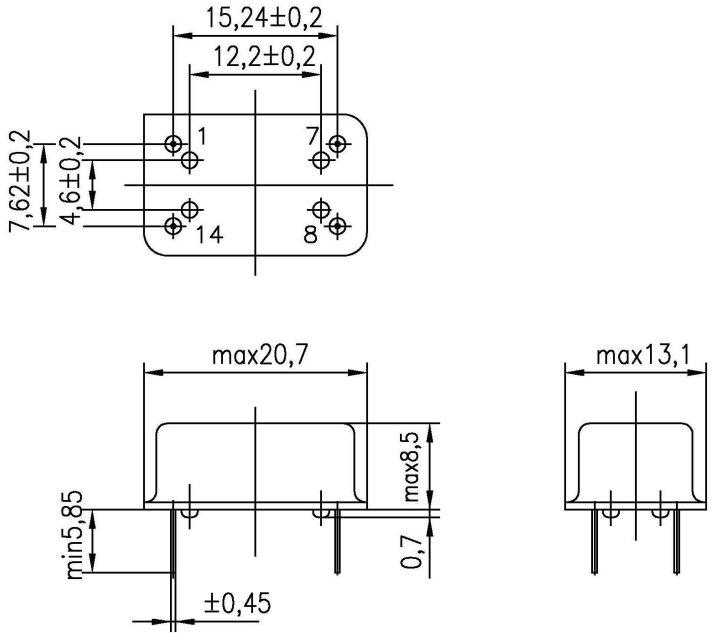
According to KVG Product Qualification Procedure AA-QM-200

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

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