



O-4000SC Series



1. Specification			
Frequency range:	5.0 ... 100.0 MHz		
Initial frequency tolerance @25°C	≤ ± 0,3ppm at time of shipment, Vc= +2.0 V		
Type:	O-4000SC	O-4100SC	O-4200SC
Supply voltage V _S :	+12.0 V ± 5 %	+5.0 V ± 5 %	+3.3 V ± 5 %
Frequency stability vs. temperature options:			
≤ ± 5 x 10 ⁻⁹ vs. 0 °C to +50 °C:	405x	415x	425x
≤ ± 1 x 10 ⁻⁸ vs. -10 °C to +60 °C:	406x	416x	426x
≤ ± 1 x 10 ⁻⁸ vs. -20 °C to +70 °C:	407x	417x	427x
≤ ± 3 x 10 ⁻⁸ vs. -20 °C to +70 °C:	401x	411x	421x
≤ ± 5 x 10 ⁻⁸ vs. -20 °C to +70 °C:	402x	412x	422x
≤ ± 3 x 10 ⁻⁸ vs. -40 °C to +85 °C:	408x	418x	428x
≤ ± 5 x 10 ⁻⁸ vs. -40 °C to +85 °C:	409x	419x	429x
Aging stability option (after 30 days of continuous operation)			
≤ ± 1 x 10 ⁻⁹ / day; ≤ ± 1 x 10 ⁻⁷ / year:	40x1	41x1	42x1
≤ ± 2 x 10 ⁻⁹ / day; ≤ ± 1 x 10 ⁻⁷ / year:	40x2	41x2	42x2
≤ ± 5 x 10 ⁻¹⁰ / day; ≤ ± 5 x 10 ⁻⁸ / year:	40x3	41x3	42x3
Frequency stability vs. supply voltage changes V _S ± 5 %: vs. load changes ± 5 %:	≤ ± 5.0 x 10 ⁻⁹ ≤ ± 1.0 x 10 ⁻⁹		
Frequency control by external voltage 0 V ... V _{REF} :	≥ ± 1 ppm		
Transfer function / Linearity:	Positive / ≤ 10%		
Reference Voltage V _{REF} :	+4.0 V ± 5%	+3.0 V ± 5%	
Power consumption @ +25°C steady state: during warm-up:	≤ 1.5 W ≤ 3.5 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 :	HCMOS / 1 kOhm // 15 pF Sinewave / > +3 dBm / 50 Ohm		

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	12 V version added	28.08.15	W.Balzer	
1		24.08.07	M. Zupan	
ED	Description	Date	Name	



ROHS-Compliant Product

O-4000SC Series



Phase noise (typical for 10 MHz): 10 Hz: 100 Hz: 1 kHz: 10 kHz:	-110 dBc / Hz -130 dBc / Hz -145 dBc / Hz -155 dBc / Hz
Storage temperature range:	-45°C ... +90°C

2. Environmental conditions

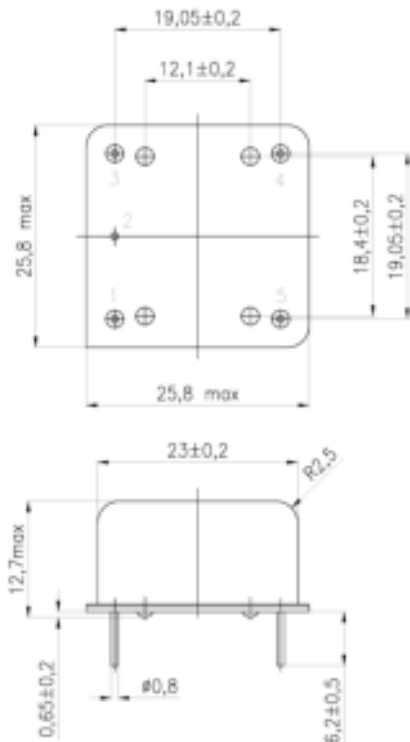
According to KVG Product Qualification Procedure AA-QM-200

3. Marking

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

4. Case

Package style BF171-IS-S12.7:



1. Pin configuration

1. RF-output
2. Ground, case
3. Control voltage V_C
4. Reference voltage output V_{REF}
5. Supply voltage V_S

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5. Ordering Information

Type Code	Package Code	Supply Voltage	Temp. Range and Freq. Stab. f(T)	Aging f(t)	RoHS compl.	Nominal Frequency
OCXO	25.8 x 25.8	0-2	5-9	1-3	-LF	XXX.YYY MHz
O-	4	0	2	2	-LF	-10.000 MHz

Example: O-4022H-LF-10.000 MHz

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