

<b>Specification</b>	<b>AXIOM45</b>	Issue: 01	Date: 2005-07-15
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**Oscillator type : OCXO High stability, Sinewave Output**

Parameter	min.	typ.	max.	Unit	Condition
<b>Frequency range</b>	5		120	MHz	
<b>Standard frequencies</b>	10 / 16.384 / 20			MHz	
<b>Frequency stability</b>				ppm	
Initial tolerance		± 500		ppb	@+25°C, V <sub>C</sub> = 2.5V
vs. temperature in operating temperature range (steady state)			± 100 ± 50 ± 25 ± 10	ppb ppb ppb ppb	Option II = "100" Option II = "50" Option II = "25" Option II = "10"
operating temperature range	-20		+70	°C	
vs. supply voltage variation			± 2	ppb	V <sub>S</sub> ± 5%
vs. load change			± 2	ppb	
long term stability (aging) per year after 30 days operation			± 200 ± 100	ppb/year ppb/year	Option II = "100" Option II = "50","25" and "10"
<b>Frequency adjustment range</b>					
Electronic Frequency Control (EFC) range	± 5 ± 1			ppm ppm	Option II = "100" Option II = "50","25" and "10"
EFC voltage V <sub>C</sub>	0.25		4.75	V	
EFC slope (Δf / ΔV <sub>C</sub> )	positive				
EFC input impedance	100			kΩ	
<b>RF output</b>					
Signal waveform	Sinus				
Load	50			Ohm	
Output amplitude	+3			dBm	
Harmonics attenuation	30			dBc	
Warm-up time @25°C			5	min	Δf <sub>final</sub> /f <sub>0</sub> < ±0.1 ppm
Phase noise @10.0 MHz Option II = „50“		-100 -130 -145 -155		dBc dBc dBc dBc	10 Hz 100 Hz 1000 Hz 10000 Hz
<b>Supply voltage V<sub>S</sub></b>	4.75 11.4	5.0 12	5.25 12.6	V V	Option I = "50" Option I = "12"
<b>Current consumption</b> (steady state) @ +25°C			200 80	mA mA	Option I = "50" Option I = "12"
<b>Current consumption</b> (warm-up)			500 200	mA mA	
<b>Operable temperature range</b>	-30		+75	°C	
<b>Storage temperature range</b>	-40		+85	°C	
<b>Enclosure</b> (see drawing) (Note 2)	36.1x27.2x19.4 max.			mm	IEC 60679-3 CO 08
<b>Weight</b>			30	gram	
<b>Packing</b>	Bulk				
<b>ESD Sensitivity</b>	1500			V	HBM IEC 61000-4-2

**Notes:**

1. Terminology and test conditions are according to IEC standard IEC60679-1, unless otherwise stated
2. Lower package height (15 mm, 13 mm) on request

**Ordering Code:**

Model (Specification)	Option I	Option II	Frequency [MHz]
AXIOM45	50	100	10.000

