

<b>Specification</b>	<b>AXIOM20-26</b>	Rev.: 1	Date: 2014-07-08
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**Oscillator type: OCXO in DIL14 Package with HCMOS Output**

Parameter	min.	typ.	max.	Unit	Condition
<b>Frequency range</b>				MHz	
<b>Standard frequencies</b>	10.000			MHz	
<b>Frequency stability</b>				ppm	
Initial tolerance @+25°C			±500	ppb	V <sub>C</sub> = 1.65V
vs. operating temperature range			±100	ppb	steady state
operating temperature range	0		+70	°C	
vs. supply voltage variation			±10	ppb	V <sub>S</sub> ±5%
vs. load change			±20	ppb	Load ±5%
Long term (aging) 1 <sup>st</sup> year			±0.5	ppm	after 30 days operation
<b>Frequency adjustment range</b>					
Electronic Frequency Control (EFC)	±2		±5	ppm	
EFC voltage V <sub>C</sub>	0.15	1.65	3.15	V	
EFC slope ( $\Delta f / \Delta V_C$ )	Positive				
EFC input impedance	100			kΩ	
<b>RF output</b>					
Signal waveform	HCMOS				
Load	15			pF	
Rise & decay time			10	ns	
Symmetry	40		60	%	
Warm-up time			2	min	$\Delta f_{final}/f_0 < \pm 0.1$ ppm
<b>Supply voltage V<sub>S</sub></b>	3.13	3.3	3.47	V	
<b>Current consumption (steady state)</b>			300	mA	@ +25°C
<b>Current consumption (warm-up)</b>			800	mA	
<b>Enable/disable function</b>					
<b>Operable temperature range</b>	-30		+75	°C	
<b>Storage temperature range</b>	-40		+85	°C	
<b>Enclosure (see drawing) (LxWxH)</b>	20.7x13.1x8.5 max.			mm	IEC 60679-3 CO 02
<b>Weight</b>			5	g	
<b>Packing</b>	Palette or tube				
<b>ESD Sensitivity</b>	1500			V	HBM, IEC 61000-4-2
<b>Handling and Testing</b>	In accordance with AXAN-011				www.axtal.com
<b>Processing</b>	In accordance with AXAN-012				www.axtal.com

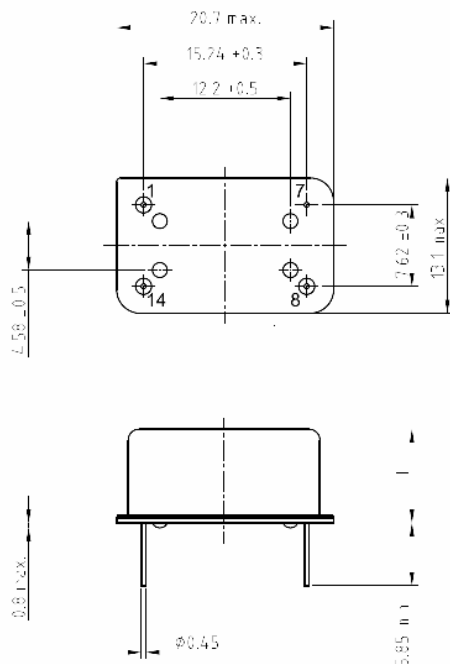
**Notes:**

1. Terminology and test conditions are according to IEC standard IEC60679-1, unless otherwise stated

**Ordering Code:**

Model (Specification)	Rev.	Frequency [MHz]
AXIOM20-26	Rev.1	10.000

### Enclosure drawing



### Pin connections

Pin #	Symbol	Function
1	V <sub>C</sub>	Voltage Control (EFC)
7	GND	Ground
8	RF OUT	RF Output
14	V <sub>S</sub>	Supply Voltage

### Environmental conditions

Test	IEC 60068 Part ...	IEC 60679-1 clause ...	Test conditions
Sealing tests (if applicable)	2-17	4.6.2	Gross leak: Test Qc, Fine leak: Test Qk
Solderability Resistance to soldering heat	2-20 2-58	4.6.3	Test Ta (235 ± 5)°C Method 1 Test Tb Method 1A, 5s
Shock*	2-27	4.6.8	Test Ea, 3 x per axes 100g, 6 ms half-sine pulse
Vibration, sinusoidal*	2-6	4.6.7	Test Fc, 30 min per axes, 10 Hz - 55 Hz 0,75mm; 55 Hz - 2 kHz, 10g
Endurance tests - ageing - extended aging		4.7.1 4.7.2	30 days @ 85°C, OCXO @25°C 1000h, 2000h, 8000h @85°C

### Revision History

Rev.	Drawing	Date [dd.mm.yyyy]	Remarks	Author	Checked
1	D0	26.08.2013	First issue	HH	HH
1	D1	08.07.2014	Editorial changes	HH	HH