

<b>Specification</b>	<b>AXE10</b>	Issue: 04	Date: 2009-10-09
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**Oscillator type : SMD PXO (Clock) in CO 26 package**

Parameter	min.	typ.	max.	Unit	Condition
<b>Frequency range</b>	1.544		125	MHz	
<b>Standard frequencies</b>				MHz	
<b>Frequency stability</b>			±25	ppm	Overall (Notes 1 & 2)
Initial tolerance				ppm	
vs. temperature			±20	ppm	Note 2
Operating temperature range	0		+70	°C	
vs. supply voltage variation			±3	ppm	V <sub>S</sub> ±5%
vs. load change			±1	ppm	Load ±5%
long term (aging) 1 <sup>st</sup> year			±1	ppm	@ +40°C
<b>Frequency adjustment range</b>					
Mechanical frequency control (trimmer)				ppm	On request
<b>RF output</b>					
Signal waveform	HCMOS/TTL				
Output signal HIGH      V <sub>OH</sub>	2.4			V	TTL load (fan-out 2) HCMOS load 15 pF
	V <sub>S</sub> - 0.5V			V	
Output signal LOW      V <sub>OL</sub>			0.4	V	TTL load (fan-out 2) HCMOS load 15 pF
			0.5	V	
Rise & decay time			10	ns	according to logic family
Symmetry (duty cycle)	40		60	%	@ V <sub>S</sub> /2
Start-up time			10	ms	
<b>Supply voltage V<sub>S</sub></b>	3.13 4.75	3.3 5.0	3.47 5.25	V	Option "33" Option "50"
<b>Current consumption</b> (steady state) Note 4	15 10		85 45	mA mA	Option "33" Option "50"
<b>Operable temperature range</b>	-40		+85	°C	
<b>Storage temperature range</b>	-40		+85	°C	
<b>Enclosure (see drawing) (LxWxH)</b>	14.4x9.5x6 max			mm	IEC 61837 CO 26
<b>Weight</b>			3	gram	
<b>Packing</b>	Tape & reel				IEC 60286-3
<b>ESD Sensitivity</b>	1500			V	HBM as in IEC 61000-4-2
<b>Construction</b>	RoHS/ Lead(Pb) -free				EU directive2002/95/EC
<b>Handling and Testing</b>	In accordance with AXAN-011				www.axtal.com
<b>Processing</b>	In accordance with AXAN-012				www.axtal.com

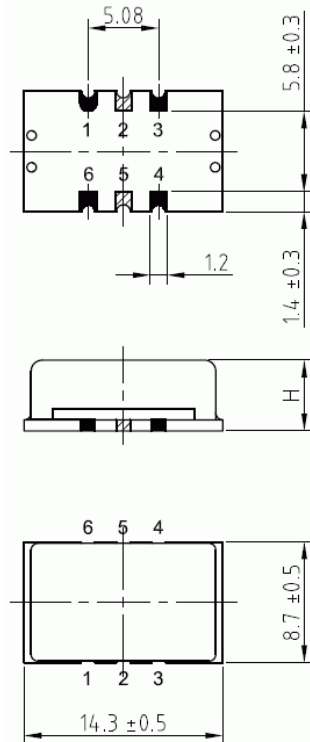
**Notes:**

1. Frequency stability = initial tolerance + stability vs. temperature
2. Other tolerances and stabilities on request
3. Terminology and test conditions are according to IEC standard IEC60679-1, unless otherwise stated
4. Depends on frequency and load

**Ordering Code:**

Model (Specification)	Option	Frequency [MHz]
AXE10	50	24.576

## Enclosure drawing



## Pin connections

Pin #	Symbol	Function
1	N.C.	No Connection
2*	N.C.	No Connection
3	GND	Ground
4	RF OUT	RF Output
5*	N.C.	Optional
6	Vs	Supply Voltage

\* Note: Pins 2 and 5 may not be present

## 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