

Specification	AXE10	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
Frequency range	1.544		125	MHz	
Standard frequencies				MHz	
Frequency stability			±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 _S ±5%
vs. load change			±1	ppm	Load ±5%
long term (aging) 1 st year			±1	ppm	@ +40°C
Frequency adjustment range					
Mechanical frequency control (trimmer)				ppm	On request
RF output					
Signal waveform	HCMOS/TTL				
Output signal HIGH V _{OH}	2.4			V	TTL load (fan-out 2) HCMOS load 15 pF
	V _S - 0.5V			V	
Output signal LOW V _{OL}			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 _S /2
Start-up time			10	ms	
Supply voltage V_S	3.13 4.75	3.3 5.0	3.47 5.25	V	Option "33" Option "50"
Current consumption (steady state) Note 4	15 10		85 45	mA mA	Option "33" Option "50"
Operable temperature range	-40		+85	°C	
Storage temperature range	-40		+85	°C	
Enclosure (see drawing) (LxWxH)	14.4x9.5x6 max			mm	IEC 61837 CO 26
Weight			3	gram	
Packing	Tape & reel				IEC 60286-3
ESD Sensitivity	1500			V	HBM as in IEC 61000-4-2
Construction	RoHS/ Lead(Pb) -free				EU directive 2002/95/EC
Handling and Testing	In accordance with AXAN-011				www.axtal.com
Processing	In accordance with AXAN-012				www.axtal.com

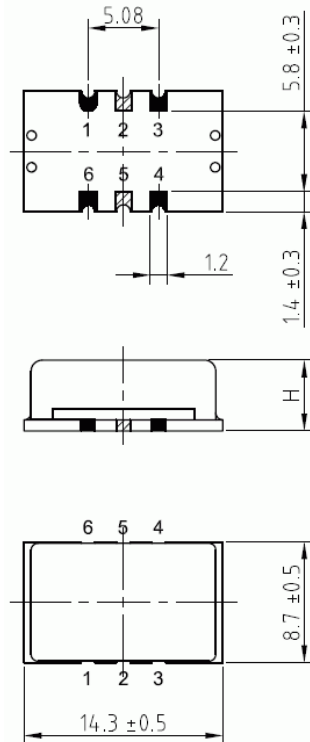
Notes:

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