

Specification	AXIS60-11	Issue: 03	Date: 2005-07-15
Oscillator type : VCXO			

Parameter	min.	typ.	max.	Unit	Condition
Frequency range				MHz	
Standard frequencies		64,250		MHz	Other frequencies on request
Frequency stability				ppm	
Initial tolerance	-10		10	ppm	@+25°C
vs. temperature in operating frequency range 0°~+70°C (steady state)	-20		20	ppm	0°~+70°C
vs. supply voltage variation	-3		3	ppm	V _S ± 5 %
vs. load change	-1		1	ppm	R _L ± 5 %
long term (aging) per year	-2		2	ppm/year	@ 40°C
Frequency adjustment range					
Mechanical (internal trimmer)				ppm	N.A.
Electronic Frequency Control (EFC) range	± 100			ppm	
EFC voltage V _C	0		5,0	V	
EFC slope ($\Delta f / \Delta V_C$)		positive			
EFC linearity			10	%	
EFC input impedance	1			kΩ	
RF output					
Signal waveform		SINUS			
Load R _L		50		Ω	
Level	-2	0	+2	dBm	
Harmonics attenuation	-20			dBc	
Anharmonics attenuation	-40			dBc	
Phase Noise L(f)		-95 -115 -125 -125		dBc dBc dBc dBc	@ 100 Hz @ 1 kHz @ 10 kHz @ 100 kHz
Supply voltage V_S	4.75	5.0	5.25	V	
Current consumption (steady state)			45	mA	@ +25°C
Enable/disable function					
Operable temperature range	-40		+85	°C	
Storage temperature range	-40		+85	°C	
Enclosure (see drawing)		19.1x13.1x5.5 max		mm	IEC 61837 CO20 modified
Weight			3	gram	
Packing		Tape & reel			IEC 60286-3
ESD Sensitivity	1500			V	HBM as in IEC 61000-4-2

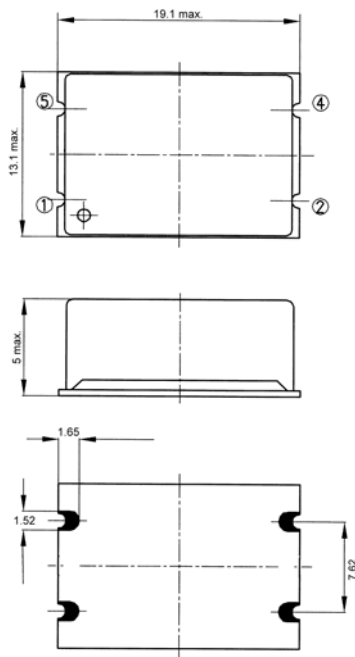
Notes:

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

Ordering Code:

Model (Specification)	Frequency [MHz]
AXIS60-11	64,250

Enclosure drawing



Pin connections

Pin #	Symbol	Function
1	V _C	Control Voltage (EFC)
2	GND	Ground
4	RF OUT	RF Output
5	V _S	Supply Voltage

Environmental conditions

Test	IEC 60068 Part ...	IEC 60679-1 clause ...	Test conditions
Visual inspection, dimensions		4.3	Enclosure styles as in IEC 60679-3 or 61837, if applicable
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
Bump*	2-29	4.6.6	Test Eb, 4000 bumps per Axes, 40g, 6 ms
Free fall*	2-32	4.6.9	Test Ed procedure 1, 2 drops from 1m height
Vibration, sinusoidal*	2-6	4.6.7	Test Fc, 30 min per axes, 10 Hz - 55 Hz 0,75mm; 55 Hz - 2 kHz, 10g
Rapid change of temperature	2-14	4.6.5	Test Na, 10 cycles at extremes of operating temperature range
Dry heat	2-2	4.6.14	Test Ba, 16 h at upper temperature indicated by climatic category
Damp heat, cyclic*	2-30	4.6.15	Test Db variant 1 severity b), 55°C/95% r.H., 6 cycles
Cold	2-1	4.6.16	Test Aa, 2 h at lower temperature indicated by climatic category
Climatic sequence*	1-7	4.6.17	Sequence of 4.6.14, 4.6.15 (1 st cycle), 4.6.16, 4.6.15 (5 cycles)
Damp heat, steady state*	2-3	4.6.18	Test Ca, 56 days
Endurance tests - ageing - extended aging		4.7.1 4.7.2	30 days @ 85°C, OCXO @25°C 1000h, 2000h, 8000h @85°C