

Specification	AXX5032	Issue: 02	Date: 2006-03-18
Oscillator type : Quartz Crystal Unit in SMD package 5.0x3.2 mm 4pad			
RoHS compliant			

Parameter	min.	typ.	max.	Unit	Condition
Frequency range	10		50	MHz	
Actual frequency f_0				MHz	
Crystal cut / Vibration mode	AT				
Load capacitance C_L	8 pF, 10 pF or Series				
Overtone	1				
Adjustment tolerance	±10 / ±30 / ±50 / ±100			ppm	@ 25°C ±5°C
Frequency stability				ppm	Overall (Note 1)
Frequency stability over temperature range	± 10 ~ ± 100			ppm	See table below
operating temperature range (steady state)	0		+50	°C	
	-10		+60	°C	
	-20		+70	°C	
	-40		+85	°C	
long term (aging)			±5	ppm	
Resonance resistance R_r			150	Ω	@ 10 ~ 12 MHz
			100	Ω	@ >12 ~ 16 MHz
			70	Ω	@ >16 ~ 30 MHz
			50	Ω	@ >30 ~ 50 MHz
Motional capacitance C_1				fF	
Static capacitance C_0			7	pF	
Drive level		50	500	μW	
Insulation resistance	500			MΩ	100 V DC
Storage temperature range	-40		+85	°C	
Enclosure (see drawing)	5.0 x 3.2 x 1.1				IEC 61637
marking	Frequency (MHz) + Date Code				
Packing	Tape & Reel				IEC 60286-3

Notes:

- Overall frequency stability = initial tolerance + temp. stability + aging (1st year)
- Terminology and test conditions are according to IEC standard IEC60122-1, unless otherwise stated
- Measurement technique according to IEC 60444-5 or equivalent

Frequency vs. Temperature Stabilities

0° ~ +50°C	-10° ~ +60°C	-20° ~ +70°C	-40 ~ +85°C
± 10 ppm	± 15 ppm	± 20 ppm	± 30 ppm
± 30 ppm	± 30 ppm	± 30 ppm	± 50 ppm
± 50 ppm	± 50 ppm	± 50 ppm	± 100 ppm
± 100 ppm	± 100 ppm	± 100 ppm	

