

ACT250SMX-4

The ACT250SMX-4 is an ultra miniature surface mount Crystal whose low power consumption makes it ideal for portable applications. It's size makes it suitable for high density circuit boards or applications where space is limited and the tape and reel packaging means that it is ideal for automatic placement machines. The heart of the device is a heat resistant cylinder type crystal which gives it high stability characteristics sufficient to allow reflow soldering.

Tel: 0044 (0)118 979 1238 Fax: 0044 (0)118 979 1283 email: info@actcrystals.com

Compatible with Eu Directive 2002/95/EC - RoHS Contains Pb>85% high melting point solder exempted from Article 4(1) of the directive



Specification

Parameter	Symbol	Specification		Condition
Frequency Range	fo	30.00 ~ 100KHz	100~200kHz	See table/note 1 Please specify
Frequency Tolerance	∆f/fo	±20ppm ~ 100ppm	±200ppm~300p	pm Please specify
Frequency v Temp Characteristics	Δf/Fo	See drawing		-10 ~ +60°C
Turnover Temperature	Tm	25°C ±5°C		
Freq. Temp. coefficient	β	-0.04ppm / °C2 max		
Temp Operating Range	Topr	-10 ~ +60°C std (-40	~ +85°C availab	le) Please specify
Temp Storage Range	Tstg	-20 ~ +70°C std		Others available, please enquire.
Equivalent Series Resistance	ESR	65kΩ max**		@ 25°C
Shunt Capacitance	C0	2.0pF max		
Load Capacitance	CL	10 ~ 25.0pF		Please specify.
Motional Capacitance	C1	4.0 fF max		
Drive Level	DL	1.0μ W max		
Insulation Resistance	IR	500M Ω Min		
Soldering reflow		see diagram: page 2		
Aging (first year)	Fa	±5ppm / first year		25°C ±3°C

** For the ESR specification on specific frequencies please enquire.

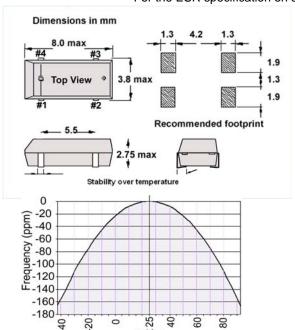


Table 1			
Developed frequencies (kHz)			
32.000			
32.768			
40.000			
60.000			
77.500			
76.800			
Note1. Availability of other			
frequencies dependant on MOQ			

frequencies dependant on MOC please enquire.

Pad Surface Material Sn/Cu

Please note that all parameters can not necessarily be specified in the same device Customer to specify: Frequency, Frequency tolerance, Operating Temperature, Load capacitance

In line with our ongoing policy of product evolvement and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

For quotations or further information please contact us at:
3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK
http://www.actcrystals.com

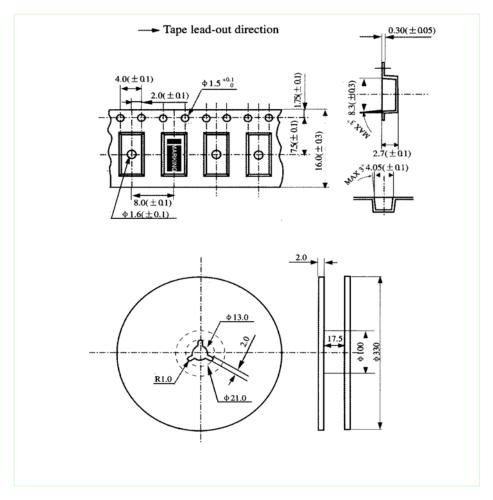
Issue : 10 C1b Date : 31-5-2012

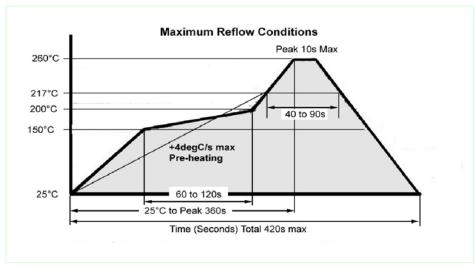


ACT250SMX-4 TAPE AND REEL DIMENSIONS (mm)

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Standard Reel Size 2000 pieces





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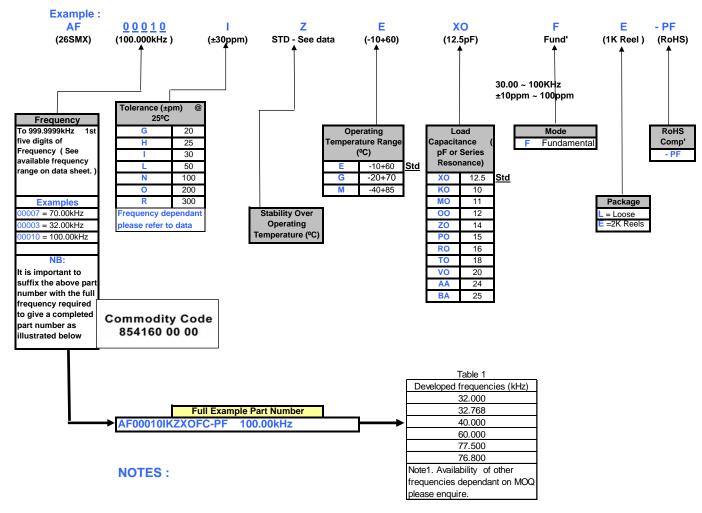
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ACT250SMX- Device series code is AF



- Other Tolerances, CL's and other Operating Temperature Ranges may be available.
 As each of these specification parameters impact on each other, it is not always possible to combine all options in one device. Therefore, if a specification not catered for above is required, please contact us directly for the relevant part
- 3) ACT are always happy to consider truly custom specification parts which may require non-standard specification parameters, specific testing, customer requested AQL requirements, non standard packaging or taping and reeling and custom marking. Such devices would normally be allocated a custom specification ACT250SMX device may have a part number such as AF00007C- C1121-PF)

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