

ACT2265SMX-4

The ACT2265SMX-4 is a very compact 4 pad, high quality, low aging, seam welded crystal. Utilising a ceramic base with a metal lid, it provides for the durability and reliability, necessary for strenuous processes like infrared and vapour reflow. The lid is grounded through the package, to assist with EMC issues and the pads are gold plated. The device is very suitable for automatic placement on PCB's. With an excellent range of frequencies and stabilities it is an optimum choice for designs where PCB space is at a premium. Applications include PDA, Cellular, MPU Clocks, ISM, Bluetooth, WLan & Consumer electronics. Available loose or on reels. (Standard: 3,000 pieces /

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

Compatible with Eu Directive 2002/EC - RoHS



Specification

opecinication				
Parameter	Symbol	Specification		Condition
Frequency Range	fo	16.00 ~ 50.00 MHz		AT, Fundamental
Frequency Tolerance	∆f/fo	±10ppm ~ 50ppm(Std)	25°C±3ppm	Please specify
Stability over Temp Range	Тс	±5ppm ~ 100ppm (refer to ta	ible 2)	
Temp Operating Range	Topr	-10 ~ +60°C ~ -40 ~ +85°C		Please specify
Temp Storage Range	Tstg	-40 ~ +85°C		
Equivalent Series Resistance	ESR	Please refer to Table 1		
Load Capacitance	CL	≥6 pF & Series		Please specify
Shunt Capacitance	C0	7pF max		
Drive Level	DL	10μW typical (100μW maxl)		
DLD		ESR x 30%		0.01μW ~ 100μW 20 steps
RLD		ESR x 100%		0.01μW ~ 100μW 20 steps
Insulation Resistance	IR	500M Ω min		@100V DC
Reflow Process		10 Seconds @ 260°C (max)	
Aging	Fa	±3ppm 1st year max		@25°C

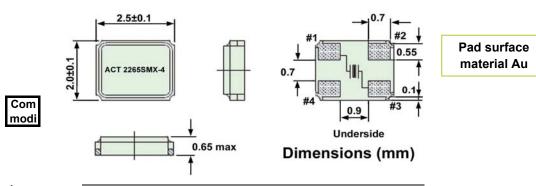


Table 1

Frequency Range (MHz)	ESR (Ω)	Mode
16.000 ~ 19.999	120	Fundamental
20.000 ~ 29.999	80	Fundamental
30.000 ~ 50.000	50	Fundamental

Table 2

Frequency Stability v Operating Temperature Range									
Stability Temp		± 7.5 ppm	+ 10 ppm	+ 15 ppm	+ 20 ppm	+ 30 nnm	+ 50 ppm	+ 100 ppm	
		± 7.5 ppiii	± 10 ppiii		± 20 ppiii		± 50 ppm		
-10 ~ 60°C	✓	V		✓		✓		✓	2
-20 ~ 60°C		✓	✓	✓	✓	✓	✓	✓	
0 ~ 70°C		✓	✓	✓	✓	✓	✓	✓	
-10 ~ 70°C		✓	✓	✓	✓	✓	✓	✓	
-20 ~ 70°C		?	✓	✓	✓	✓	✓	✓	
-30 ~ 60°C			✓	✓	✓	✓	✓	✓	
-20 ~ 85°C				✓	✓	✓	✓	✓	
-30 ~ 70°C				✓	✓	✓	✓	✓	
-30 ~ 85°C					✓	✓	✓	✓	
-40 ~ 85°C					✓	✓	✓	✓	
-40 ~ 90°C						✓	✓	✓	
-40 ~ 105°C						✓	✓	✓	

Please note that all parameters can not necessarily be specified in the same device

Customer to specify: Frequency, Frequency Tolerance, Temperature Stability, 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 5 Skr Date: 18-07-2012

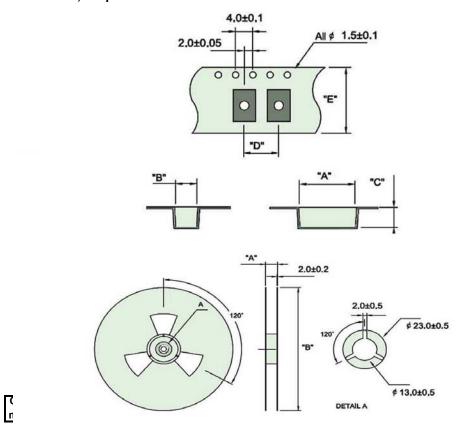
Enquire



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

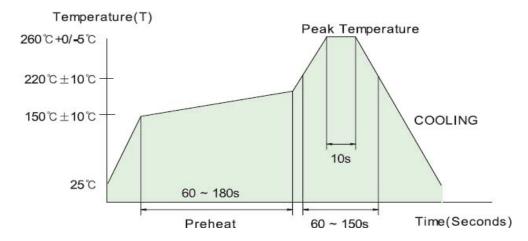
ACT2265SMX-4 Series Tape Dimensions (Units in mm)

* Standard: 3,000 piece reels



Quantity (pcs / Reel)	Reel di	mension	Career Tape dimension				
	Α	В	А	В	С	D	E
3000	11.5±0.2	¢ 178±0.2	2.8±0.1	2.3±0.1	1.0±0.1	4.0±0.1	8.0±0.2

Reflow Information



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

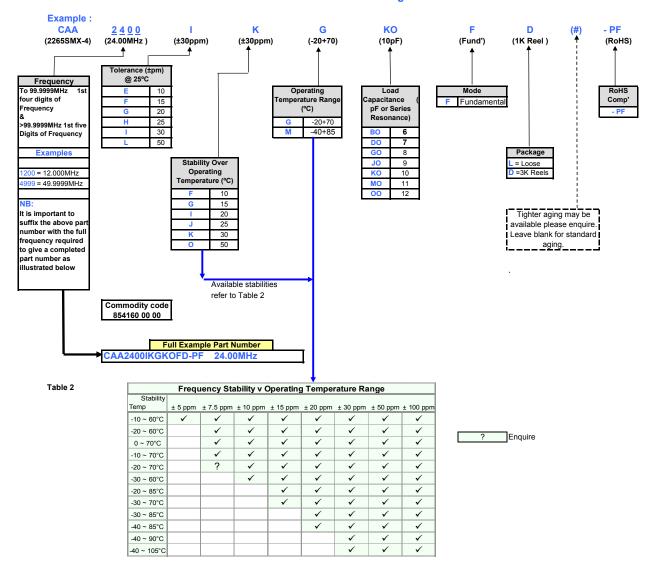
http://www.actcrystals.com

Issue 5 Skr Date: 18-07-2012



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

SERIES: ACT2265SMX-4 Part numbering code is CAA



NOTES:

- Tighter Tolerances and Stabilities 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 number code(s).
- 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 part number which is wholly customer specific.

 ACT ACT ACT AND AC
- 3) A guide to availability of tighter stabilities appears in Table 2 of the data sheet
- 4) Frequencies below 10.000MHz are prefixed with a "0" (eg: 0900 = 9MHz.Whereas 10.000MHz is 1000) See main data sheet for available frequency range.