

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 / reel).

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





Pad surface

material Au

Specification

Symbol	Specification		Condition
fo	16.00 ~ 50.00 MHz		AT, Fundamental
∆f/fo	±10ppm ~ 50ppm(Std)	25°C±3ppm	Please specify
Тс	±5ppm ~ 100ppm (refer to ta	ble 2)	
Topr	-10 ~ +60°C ~ -40 ~ +85°C		Please specify
Tstg	-40 ~ +85°C		
ESR	Please refer to Table 1		
CL	≥6 pF & Series		Please specify
C0	7pF max		
DL	10μW typical (100μW maxl)		
	ESR x 30%		0.01μW ~ 100μW 20 steps
	ESR x 100%		0.01μW ~ 100μW 20 steps
IR	500M $Ω$ min		@100V DC
	10 Seconds @ 260°C (max)		
Fa	±3ppm 1st year max		@25°C
	fo Δf/fo Tc Topr Tstg ESR CL C0 DL	fo 16.00 ~ 50.00 MHz Δf/fo ±10ppm ~ 50ppm(Std) Tc ±5ppm ~ 100ppm (refer to ta Topr -10 ~ +60°C ~ -40 ~ +85°C Tstg -40 ~ +85°C ESR Please refer to Table 1 CL ≥6 pF & Series C0 7pF max DL 10μW typical (100μW maxl) ESR x 30% ESR x 100% IR 500MΩ min 10 Seconds @ 260°C (max)	fo 16.00 ~ 50.00 MHz $ \Delta f/fo = \pm 10ppm \sim 50ppm (Std) = 25^{\circ}C \pm 3ppm $ Tc $\pm 5ppm \sim 100ppm (refer to table 2)$ Topr $-10 \sim +60^{\circ}C \sim -40 \sim +85^{\circ}C$ Tstg $-40 \sim +85^{\circ}C$ ESR Please refer to Table 1 CL ≥ 6 pF & Series CO 7pF max DL $10\mu W$ typical $(100\mu W$ maxl) $ESR \times 30\%$ $ESR \times 100\%$ IR $500M\Omega$ min 10 Seconds @ $260^{\circ}C$ (max)

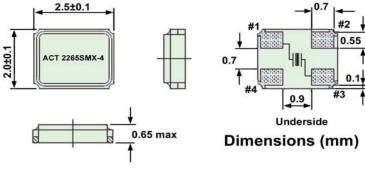


Table 1

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

Table 2

	Frequ	uency Sta	ability v (Operating	g Tempe	rature Ra	nge	
Stability Temp		± 7.5 ppm	± 10 ppm	± 15 ppm	± 20 ppm	± 30 ppm	± 50 ppm	± 100 ppm
-10 ~ 60°C	✓	✓	✓	✓	✓	✓	✓	✓
-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 2 Skr Date: 30/11/2010

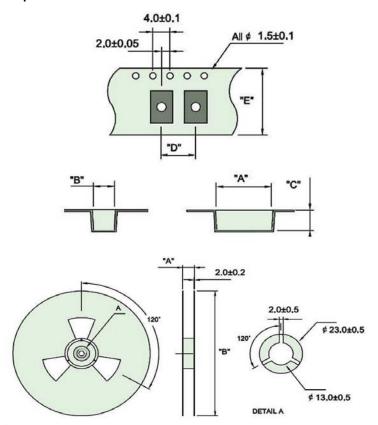
Enquire



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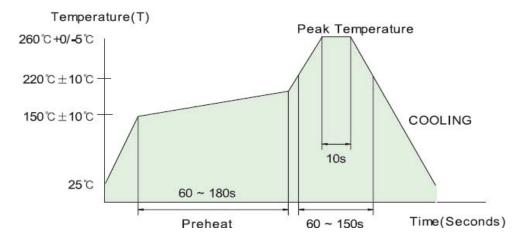
ACT2265SMX-4 Series Tape Dimensions (Units in mm)

* Standard: 3,000 piece reels



Quantity	Reel di	mension	Career Tape dimension					
(pcs / Reel)	Α	В	Α	В	С	D	Е	
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



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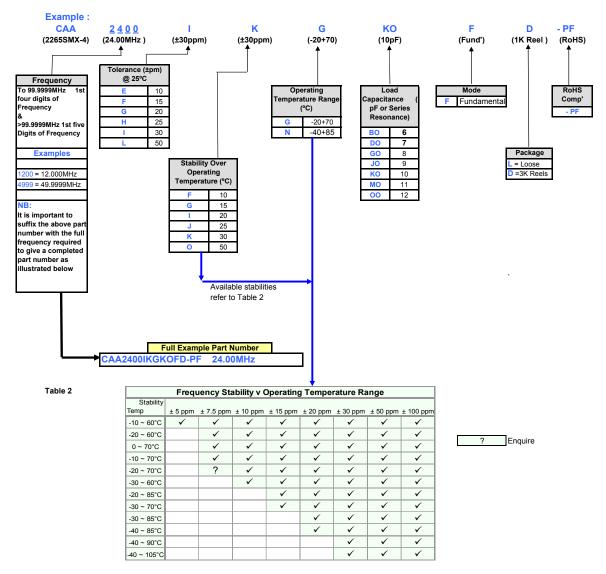
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SERIES: ACT2265SMX-4 Part numbering code is CAA



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.

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- 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.