

ACT86E-SMX

Compact in size, the Surface Mount, plastic packaged **ACT86E-SMX** is ideal for high density packing and automatic placement on circuit boards. The device has, as its core, a heat resisting cylinder type crystal which makes full use of AT cut crystal characteristics. This device can be used in a variety of applications such as Communications, Audio Visual, Measurement and Portable Equipments. The footprint is an industry standard layout and is compatible with other popular plastic crystals in this package. **Specification**

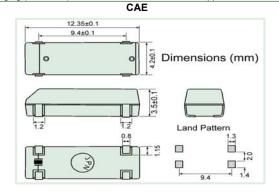


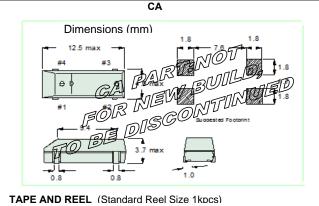
0044 (0)118 979 1238 0044 (0)118 979 1283

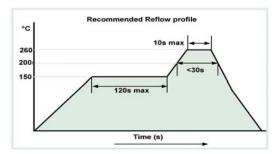
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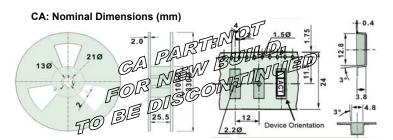
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Parameter	Symbol	Specification		Condition	
		CAE (M4H)	CA (M4E) CA PART:NO	T FOR NEW BUILD, TO BE DISCONTINUED	
Frequency Range	fo	3.579MHz ~ 50MHz	3.9MHz~ 32MHz	Fundamental	
			30~70MHz	3rd O/T	
Frequency Tolerance @25°C	Δf/fo	±30ppm & 50ppm	±30ppm & 50ppm	Please specify	
Temp Operating Range	Topr	-10°C ~ +60°C	-10~+60°C, -40~+85°C	Please specify	
Stability over Temp Range	Tc	±50ppm Standard.	±50ppm (<6MHz)	Please specify	
			±50ppm ,±30ppm (>6MHz)		
Temp Storage Range	Tstg	-40°C ~ +85°C	-55°C ~ +125°C	-55°C ~ +125°C	
Equivalent Series Resistance	ESR	See table below	See table below	@25°C	
Shunt Capacitance	C0	5pF max	7pF max	7pF max	
Load Capacitance	CI	7 ~ 32pF & SR	10~32pF & series	Please specify	
Drive Level	DL max	100±2μ W	50~100μW	50~100μW	
Insulation Resistance	IR	500MΩ Min	500MΩ Min	DC 100V±15V	
Aging (First Year)	Fa	±5ppm max	±5ppm max	±5ppm max @25°C ±3°C	

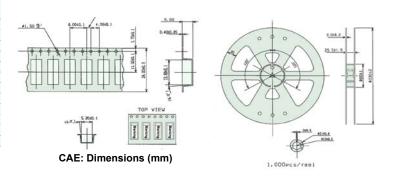








Frequency (MHz)				ESR (Ω)	max	Mode
				ECA	CA	
3.579	≤ fo ~	<	3.999	180	200	Fundamental
4.000	≤ fo ~	<	4.999	150	150	Fundamental
5.000	≤ fo ~	<	5.999	100	150	Fundamental
6.000	≤ fo ~	<	6.999	100	100	Fundamental
7.000	≤ fo ~	<	8.999	80	100	Fundamental
9.000	≤ fo ~	<	9.99	60	100	Fundamental
10.000	≤ fo ~	<	12.99	60	50	Fundamental
13.000	≤ fo ~	<	19.99	50	50	Fundamental
20.000	≤ fo ~	<	35.99	40	50	Fundamental
36.000	≤ fo ~	<	50.00	40	50	Fundamental
30.00	≤ fo ~	<	36.00		100	3rd O/T
36.00	≤ fo ~	<	70.00		80	3rd O/T



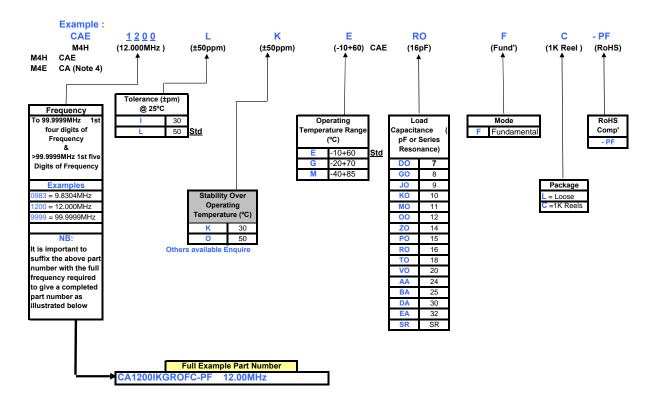
Please note that all parameters can not necessarily be specified in the same device

Customer to specify: Frequency, Frequency Tolerance, Temperature Stability, Operating Temperature Range, 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



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SERIES: ACT86E SMX Part numbering code is CA/ ECA



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).
- 2) 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. This would be MOQ dependent(EG : A 12.00MHz custom ACT86E SMX device may have a part number such as CA1200C- C1122-PF)
- 3) Frequencies below 10.000MHz are prefixed with a "0" (eg: 0900 = 9MHz. Whereas 10.000MHz is 1000)
- 4) NOT FOR NEW BUILD, TO BE DISCONTINUED