

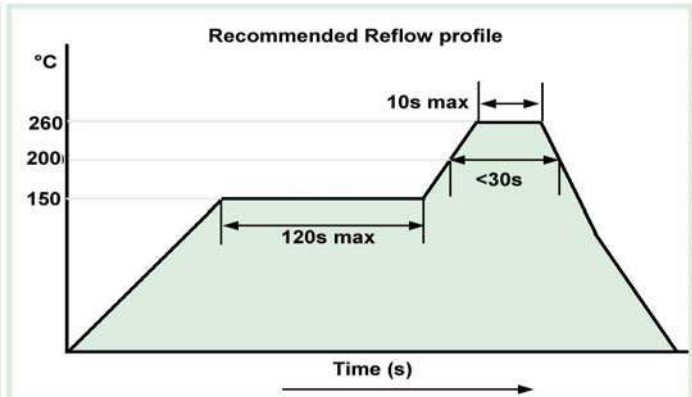
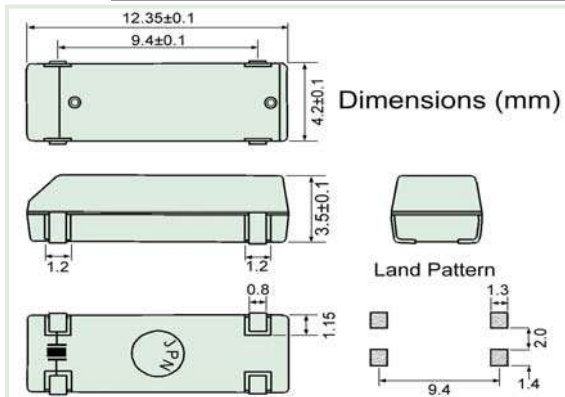
ACT86E-SMX

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.

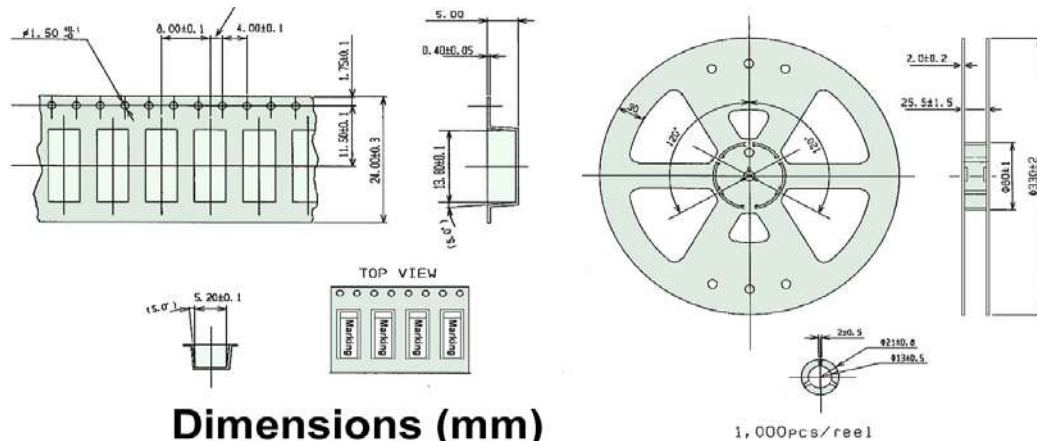
Specification

Parameter	Symbol	Specification	Condition
Frequency Range	fo	3.579MHz ~ 50MHz	Fundamental
Frequency Tolerance @25°C	$\Delta f/f_0$	$\pm 30\text{ppm}$ & 50ppm	Please specify
Temp Operating Range	Topr	-10°C ~ +60°C Standard. Others enquire.	Please specify
Stability over Temp Range	Tc	$\pm 50\text{ppm}$ Standard. Others enquire	Please specify
Temp Storage Range	Tstg	-40°C ~ +85°C	
Equivalent Series Resistance	ESR	See table below	@25°C
Shunt Capacitance	C0	5pF max	
Load Capacitance	CL	7 ~ 32pF & SR	Please specify
Drive Level	DL max	100 $\pm 2\mu$ W	
Insulation Resistance	IR	500M Ω Min	DC 100V ± 15 V
Aging (First Year)	Fa	$\pm 5\text{ppm}$ max	@25°C $\pm 3^\circ\text{C}$

Frequency (MHz)	ESR (W) max	Mode
3.579 $\leq f_0 \sim < 3.999$	180	Fundamental
4.000 $\leq f_0 \sim < 4.999$	150	Fundamental
5.000 $\leq f_0 \sim < 5.999$	100	Fundamental
6.000 $\leq f_0 \sim < 6.999$	100	Fundamental
7.000 $\leq f_0 \sim < 8.999$	80	Fundamental
9.000 $\leq f_0 \sim < 12.99$	60	Fundamental
13.00 $\leq f_0 \sim < 19.99$	50	Fundamental
20.00 $\leq f_0 \sim < 50.00$	40	Fundamental



TAPE AND REEL (Standard Reel Size 1kpcs)



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 evolution and improvement, the above specification may be subject to change without notice

ISO9001:2000 Registered

For quotations or further information please contact us at:

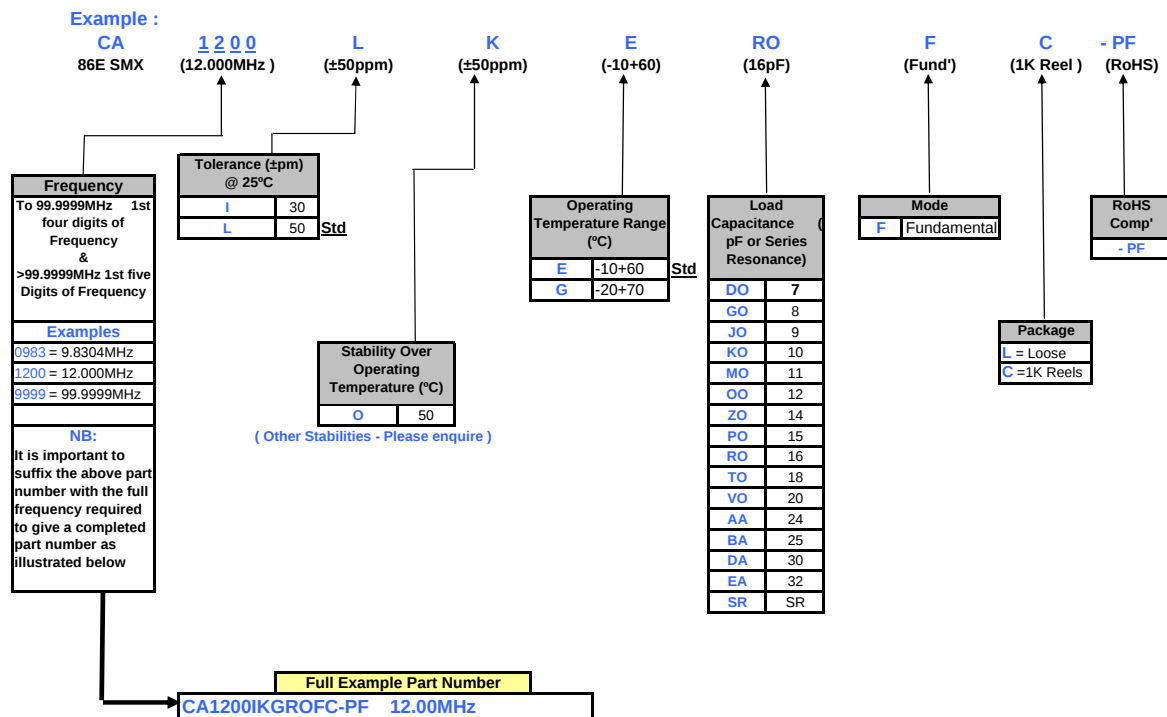
3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK

<http://www.actcrystals.com>

Issue:3 M4H

Date:08-12-2010

SERIES : ACT86E SMX Part numbering code is CA



NOTES :

- 1) 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)

ISO9001 Registered

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