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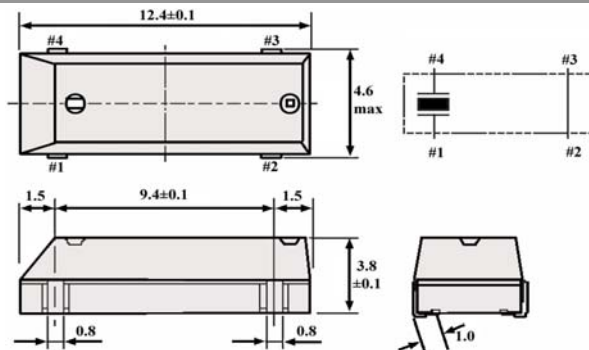
ACT86LCSMX

The ACT86LCSMX is a low cost version of our popular ACT86SMX device. Compact in size, the Surface Mount, plastic packaged **ACT86LCSMX** 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	3.579 ~ 27.00MHz	Fundamental. Please specify
Frequency Tolerance	$\Delta f/fo$	$\pm 15\text{ppm}$, 30ppm & 50ppm	Please specify
Temp Operating Range	Topr	-10°C~+60°C, -20°C~+70°C	(-40°C~+85°C Available @ 100ppm only) Please specify
Stability over Temp Range	Tc	$\pm 50\text{ppm}$ std ($\pm 30\text{ppm}$ option)	(-40°C~+85°C Available @ 100ppm only) Please specify
Temp Storage Range	Tstg	-40°C ~ +85°C	
Equivalent Series Resistance	ESR	See table below	@25°C
Shunt Capacitance	C0	5.0pF max	
Load Capacitance	CL	10 ~ 32pF & SR	Please specify
Drive Level	DL	10 ~ 100 μ W	
Insulation Resistance	IR	500M Ω Min	DC 100V ± 15 V
Aging (First Year)	Fa	$\pm 5\text{ppm}$	@25°C $\pm 3^\circ\text{C}$

Frequency (MHz)	ESR (Ω) max	Mode
3.579 ~ 4.499	150	Fundamental
4.500 ~ 4.999	130	Fundamental
5.000 ~ 6.999	120	Fundamental
7.000 ~ 9.999	100	Fundamental
10.000 ~ 11.999	80	Fundamental
12.000 ~ 13.999	70	Fundamental
14.000 ~ 15.999	50	Fundamental
16.000 ~ 27.000	35	Fundamental



Do not connect pads #2 & #3 to external devices.
 Metal may be exposed on the top or bottom of device. This will not affect any quality, reliability or electrical performance

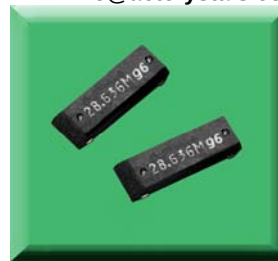
Please note that all parameters can not necessarily be specified in the same device

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 4 C1b
 Date 31/08/07

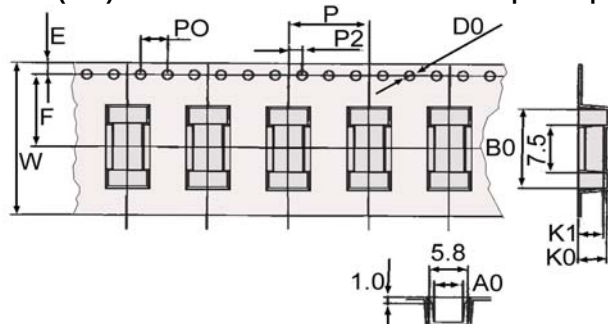


Compatible with Eu Directive
 2002/EC - RoHS

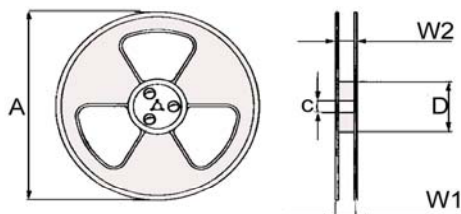
ACT86LCSMX

Tape and Reel information (mm)

Standard reel size 2000 pieces per reel



W	A0	B0	E	F	P	P0	P2	D0	K0	K1
24 ^{+0.3} _{-0.3}	4.5 ^{+0.1} _{-0.1}	2.8 ^{+0.1} _{-0.1}	1.75 ^{+0.1} _{-0.1}	11.5 ^{+0.1} _{-0.1}	12.0 ^{+0.1} _{-0.1}	4 ^{+0.1} _{-0.1}	2 ^{+0.15} _{-0.15}	1.5 ^{+0.15} _{-0.15}	4.3 ^{+0.1} _{-0.1}	3.8 ^{+0.1} _{-0.1}



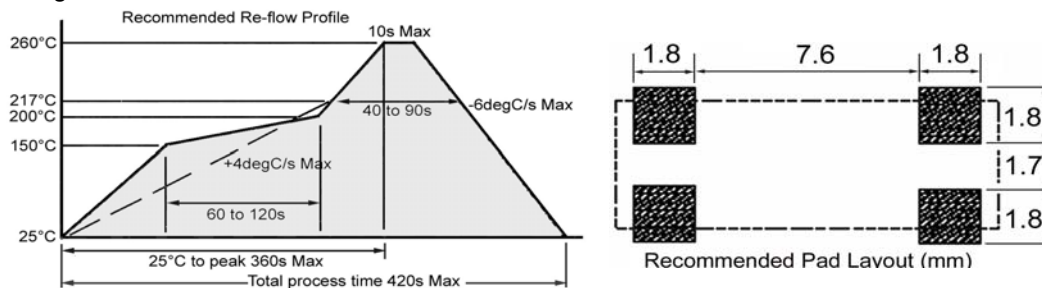
A	C	D	W1	W2
330 ^{+0.5} _{-0.5}	25 ^{+0.2} _{-0.2}	100 ^{+0.3} _{-0.3}	28 ^{+0.2} _{-0.2}	24 ^{+0.4} _{-0.2}

Internal cylinder crystal

ACT86LCSMX utilizes a 3x8mm 6.0MHz ~ 27.0MHz, 3x9mm 4.0MHz & 3x10mm 3.579545 ~ 3.9999MHz)

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Soldering Information



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