

# ACT634SMX-2 Withdrawn no longer available

12/11/2007

Compatible with Eu Directive 2002/95/EC - RoHS  
 Contains Pb in sealing glass exempted from Article 4(1) of the directive

The ACT634SMX-2 family is a low cost, 2 pad, high quality, low aging 6x3.5mm SMD Crystal in a ceramic base / ceramic lid package, glass sealed for good reliability. The wide frequency range and specification options ensure suitability for many applications.

**APPLICATIONS:** Instrumentation, Audio-visual, Security, PC accessory, Office automation, Micro Clock, Process Control & Consumer.



## Specification

Parameter	Symbol	Specification	Condition
Frequency Range	fo	10.0 ~ 100.0MHz	Please specify
Frequency Tolerance (@25°C)	Δf/fo	±20,±30 & ±50ppm(Std )	Please specify
Stability over temp range	Tc	±20ppm ~ 50ppm (See table 2)	Please specify
Temp Operating Range	Topr	0~+50°C ~ -20~+70°C ( See table 2)	Please specify
Temp Storage Range	Tstg	-40 ~+85°C	
Equivalent Series Resistance	ESR	See table 1	
Load Capacitance	CL	16pF ~ 50pF & Series	(16,20 & 30pF Std )
Shunt Capacitance	C0	5pF max	
Drive Level	DL	100μW typical (500μW max)	(Custom available - Please enquire)
Insulation Resistance	IR	500MΩ min	@100V DC
Aging	Fa	±5ppm p/yea*	(First year max @ 25°C)

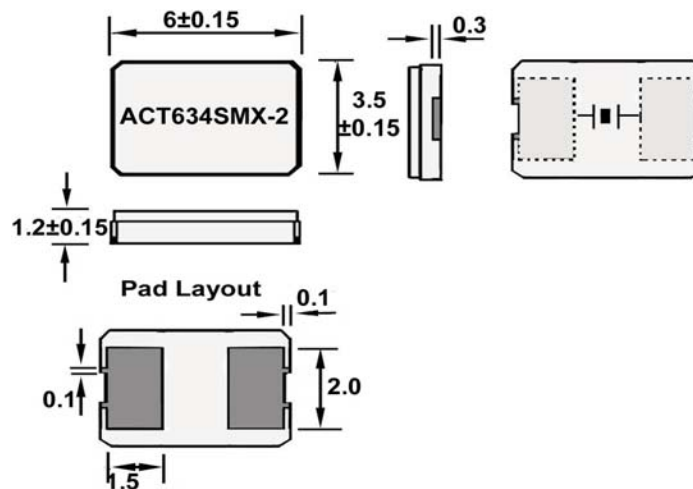
\* A ±3ppm aging p/year part is available as a "semi-custom" device - Please enquire

**Table 1**

Freq. Range (MHz)	ESR (Ω) max	Mode / Cut
10.000 ~ 11.999	80	Fundamental / AT
12.000 ~ 14.999	50	Fundamental / AT
15.000 ~ 49.090	40	Fundamental / AT
45.000 ~ 79.999	90	3 <sup>RD</sup> Overtone / AT
80.000 ~ 100.000	90	3 <sup>RD</sup> Overtone / AT

Pad Surface Material: Gold (Au)

## Dimensions (mm)



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 evolution and improvement, the above specification may 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 C1F  
Date 02/05/06

## ACT634SMX-2

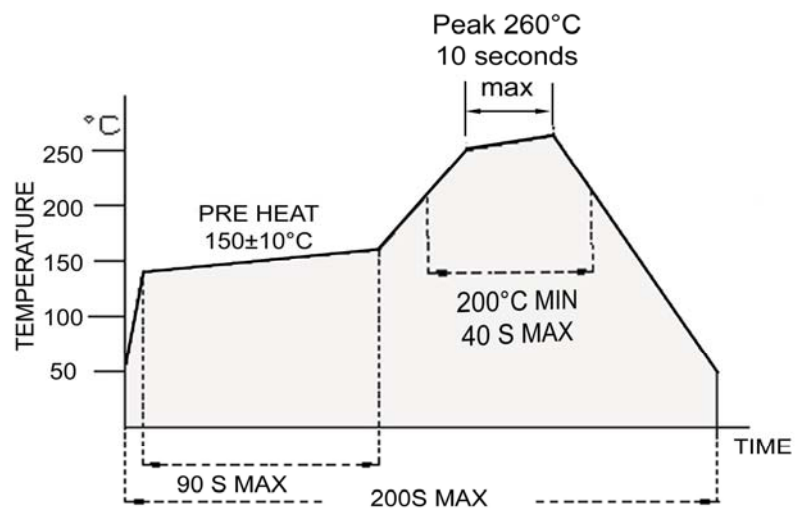
Table 2

Temp \ Stability	+/- 5ppm	+/- 10ppm	+/- 20ppm	+/- 30ppm	+/- 50ppm
0~+50°C			+	+	+
-10~+60°C			+	+	+
-20~+70°C			+	+	+
-30~+80°C					
-40~+85°C					



Standard stabilities

### Standard Re-flow Profile



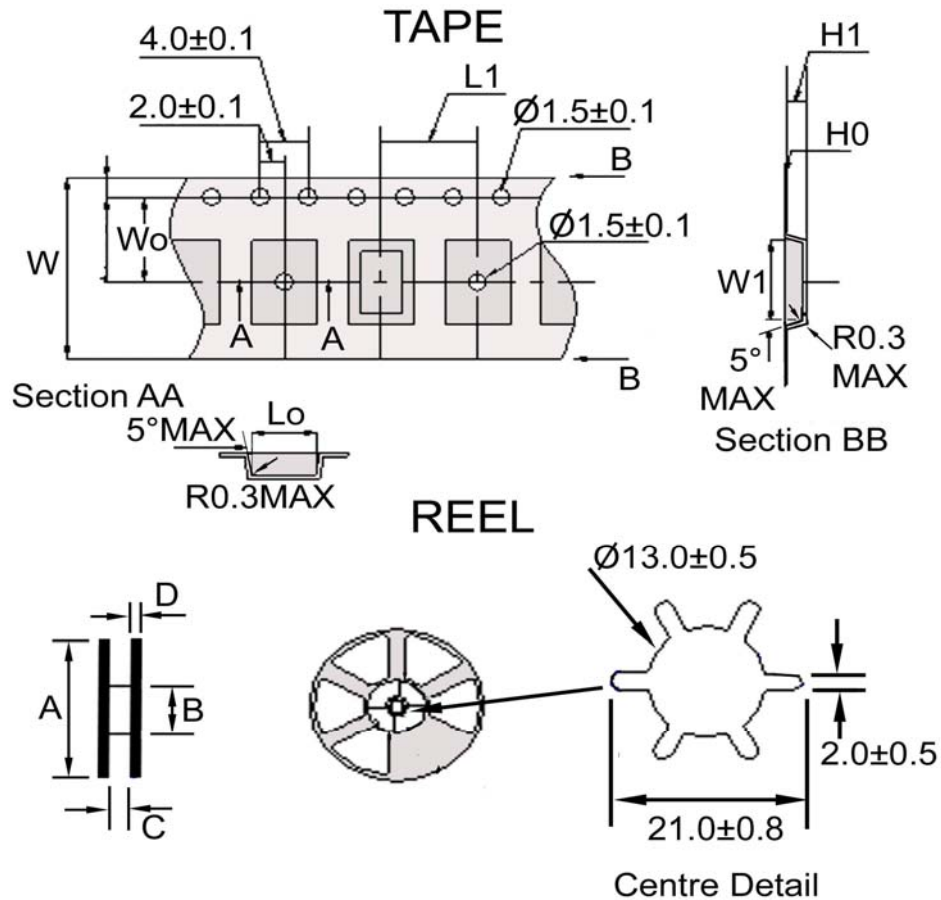
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**ACT634SMX-2**  
**TAPE & REEL SPECIFICATION**  
 ( 1K pcs each reel )



Tolerance Dimension	TAPE							REEL			
	W	Wo	W1	Lo	L1	Ho	H1	A	B	C	D
	±0.3	±0.05	±0.1	±0.1	±0.1	±0.05	±0.1	±2	±1	±0.5	±0.2
12.0	5.5	6.5	4.0	8.0	0.3	1.7	180	80	13.5	2.0	

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