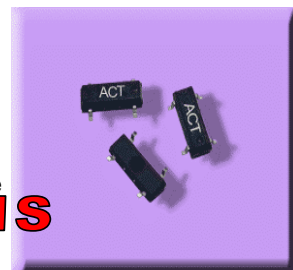


## ACT132SMX

The **ACT132SMX** is a low height, plastic package incorporating a cylinder type crystal. It is ideally suitable for automatic insertion, especially where high density surface mounting is needed.

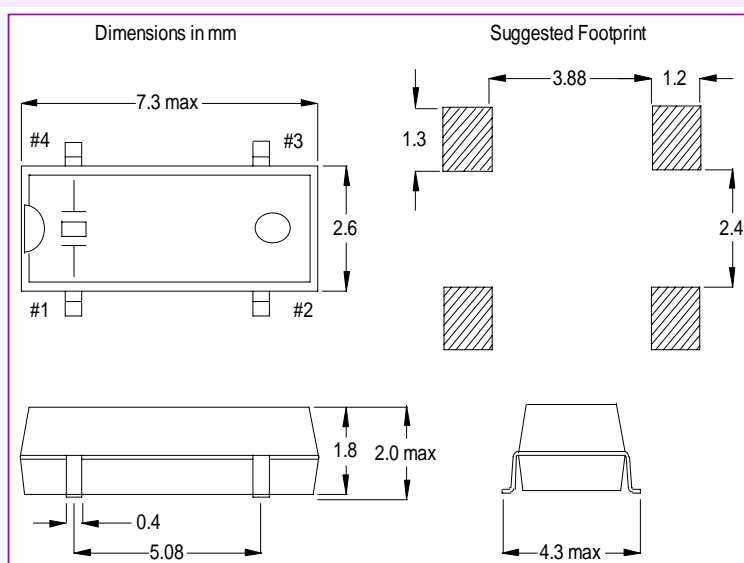
**Applications** include Radio Communications Equipment, Pagers, Cellular Phones, portable applications.



**OBSELETE  
 PRODUCT WITHDRAWN  
 SEE ACT200/201 OR ACT711S  
 FOR ALTERNATIVES**

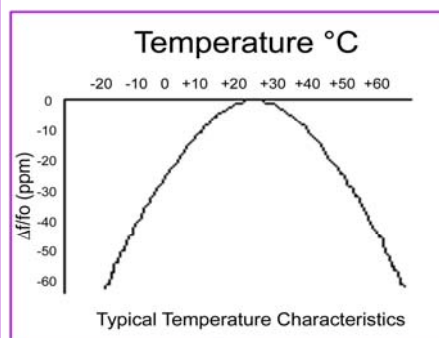
### Specification

Parameter	Symbol	Specification	Condition
Frequency Range	fo	32.768KHz	
Frequency Tolerance	$\Delta f/fo$	$\pm 20, \pm 30, \pm 50, \pm 100\text{ppm}$	Please specify
Frequency v Temperature	$\Delta f/fo$	See Drawing	
Turnover Temperature	Tp	$+25^{\circ}\text{C} \pm 5^{\circ}\text{C}$	
Temp. Coefficient	K	$-3.5 \times 10^{-8}/^{\circ}\text{C}^2$	
Temp Operating Range	Tope	$-40 \sim +85^{\circ}\text{C}$	
Temp Storage Range	Tsto	$-55 \sim +125^{\circ}\text{C}$	
Equivalent Series Resistance	ESR	55K $\Omega$ max	
Shunt Capacitance	C0	0.9pF typical	
Motional Capacitance	C1	2.3fF typical	
Load Capacitance	CL	12.5pF	Please refer to note 1
Maximum Drive Level	DL	1 $\mu$ W recommended	
Drive Level	DL max	0.1 $\mu$ W	
Aging	Fa	$\pm 5\text{ppm}$ max	25 $^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , first year
Reflow Profile	Tsol	See diagram: page 4	



#### Note 1

A 7pF load capacitance device is available but at present this device is not RoHS compatible. The reflow profile for this device is available on request.



**Lead Free-RoHS comp.**

A solder containing >85% Lead as an inapplicability substance is used on an internal terminal. Exempt under the RoHS legislation (1000ppm Pb)

**Pad Surface Material  
 SnBi 0.007-0.012mm**

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

Customer to specify : Frequency, Frequency Tolerance, 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 - Registration number 6830/2

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>

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## ACT132SMX TAPE AND REELING

### 3.000 PIECE REELS

MATERIAL

**OBSOLETE**

Reel MPPE

ORIENTATION IN CARRIER TAPE

**PRODUCT WITHDRAWN**

**SEE ACT200/201 OR ACT711S**

**FOR ALTERNATIVES**

User direction of feed

### LAYOUT OF TAPE

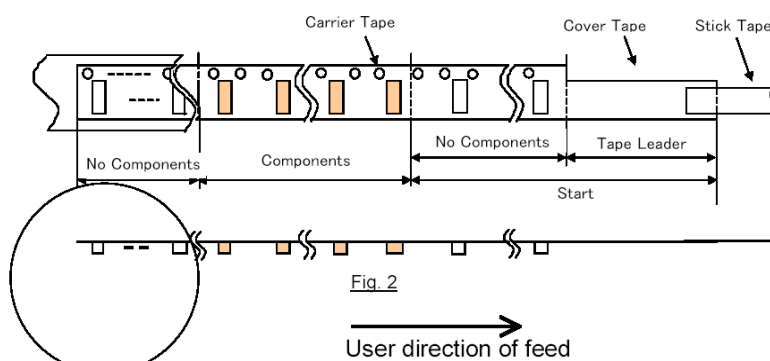
No Components

20 Pockets Minimum

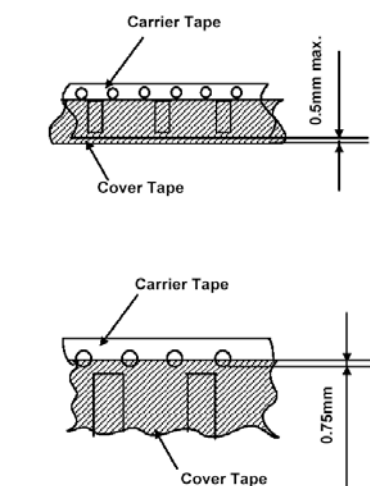
Cover Tape Leader

400mm Minimum

Start of carrier tape bent vertically and hooked into reel slot.



### COVER TAPE OVERLAP



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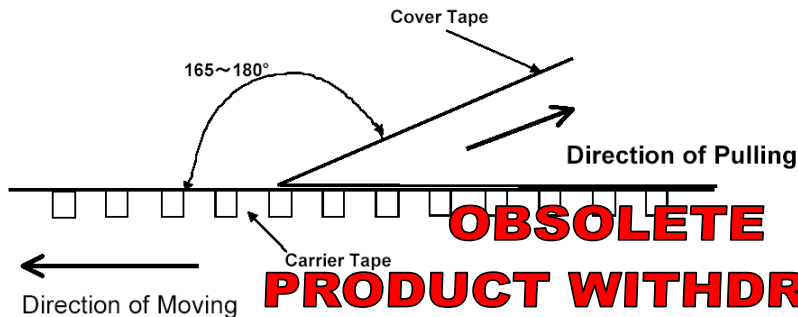
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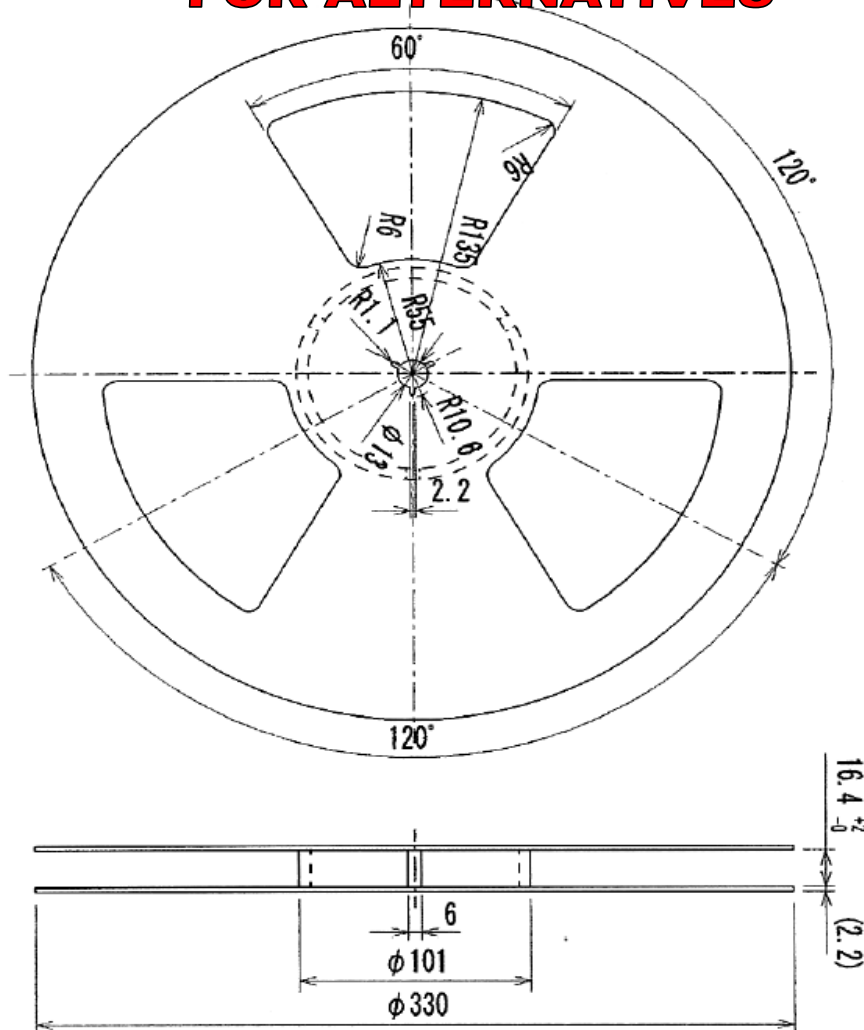
## ACT132SMX TAPE & REELING SPECIFICATION cont'd

### PEEL STRENGTH

Using method below the force to start the tape peeling with a pull speed of  $300 \pm 10$  mm/min shall be 0.1~1.3N.



REEL DIMENSIONS



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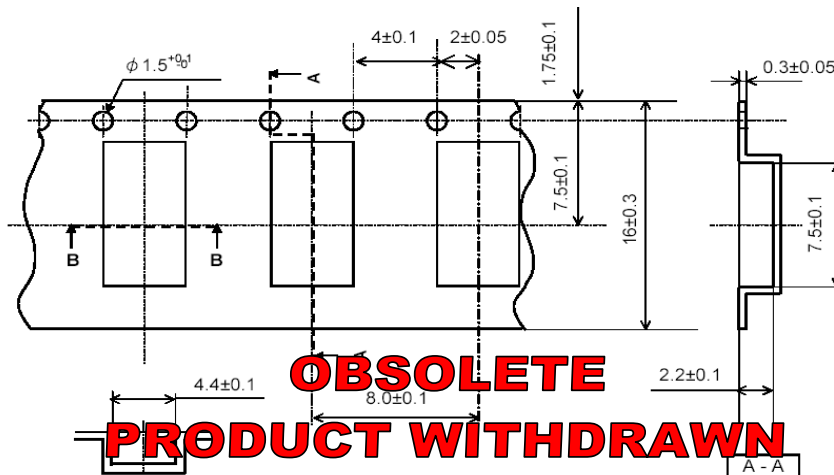
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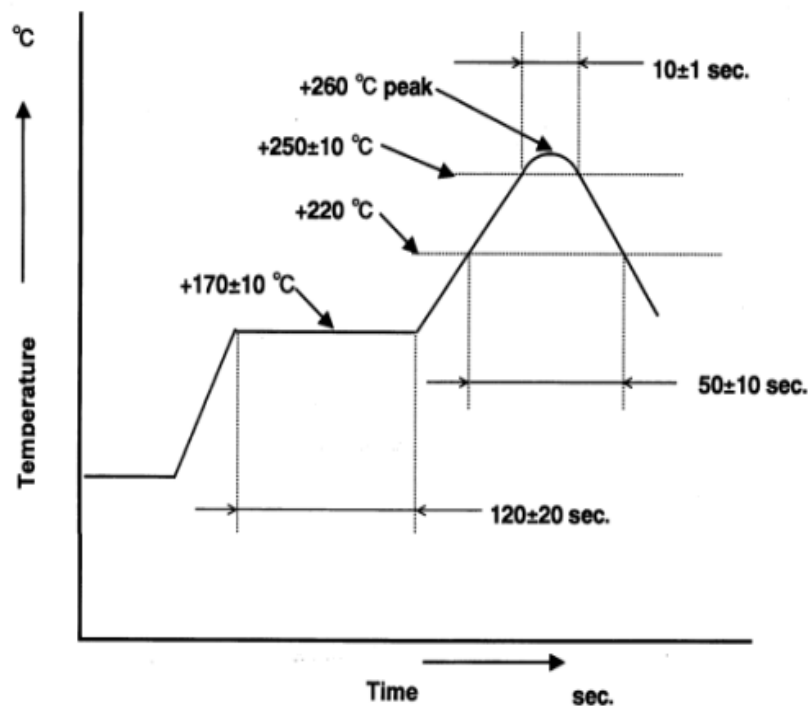
## ACT132SMX TAPE & REELING SPECIFICATION cont'd

CARRIER TAPE DIMENSIONS (mm)



**OBSELETE**  
**PRODUCT WITHDRAWN**  
**SEE ACT200/201 OR ACT711S**  
**FOR ALTERNATIVES**

## ACT132SMX REFLOW SOLDERING PROFILE



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