

ACT533SMX-2

The ACT533SMX-2 is a 2 pad, high quality, cost competitive ceramic packaged, glass sealed crystal. The package provides for the durability and reliability, necessary for strenuous processes like infrared and vapour reflow. The pads are gold plated. The device is very suitable for automatic placement on PCB's. With an excellent range of Fundamental Frequencies (To 54.0MHz) allowing for ease of circuit design, and with a good range of stabilities it has become one of the optimum choices for design engineers. Applications include Microprocessor Systems, Instrumentation, Office Automation, Audio Visual and many more. (Available loose, or on 1,000pc reels to assist with varying volume requirements.)

Tel: 0044 (0)118 979 1238 Fax: 0044 (0)118 979 1283 email: info@actcrystals.com

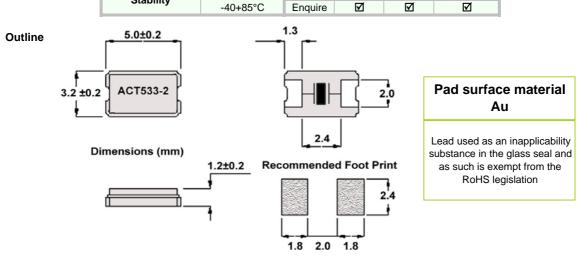
> Compatible with Eu Directive 2002/95/EC - RoHS Contains Pb in sealing glass exempted from Article 4(1) of the directive



Specification

Parameter	Symbol	Specification C	ondition
Frequency Range	fo	12.00 ~ 48.00 MHz	Please specify
		10-11.99,&48.01~54MHz Please check on availability	
Frequency Tolerance	∆f/fo	±20ppm ~ 100ppm (@25°C±3°C) Refer to Table 2	Please Specify
Stability over Temp Range	Тс	±20ppm ~ 100ppm (Ref to :25°C±3°C) Refer to Table 2	Please specify
Temp Operating Range	Topr	-10 ~ +70°C (-40 ~ +85°C option)	Please specify
Temp Storage Range	Tstg	-40 ~ +85°C	
Equivalent Series Resistance	ESR	See table below	
Load Capacitance	CL	8 ~ 30pF or Series Resonance	Please specify
Shunt Capacitance	C0	7pF max	
Drive Level	DL	10μW ~300μW max. (100μW Typical)	
Insulation Resistance	IR	500M Ω min	@100V DC
Reflow Process		10 Seconds (max) @260°C	
Aging	Fa	±5ppm / year max	@25°C

Table 1 Frequency Range (MHz) ESR (Ω) max Mode 12.0 ~ 19.999 120 **Fundamental** 20.0 ~ 29.999 Fundamental 70 30.0 ~ 54.000 50 **Fundamental** Table2 ±20ppm ±50ppm ±100ppm ±30ppm **Tolerance** 25°C Enquire \square \square \square ☑ \square M -10+60°C Enquire Stability



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 evolvement 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

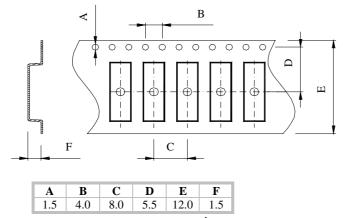
Issue 3 H2 Date 05-10-05



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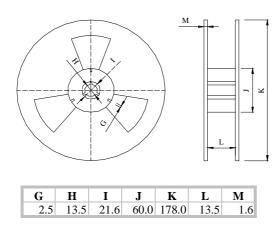
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Tape Dimensions (Units in mm)

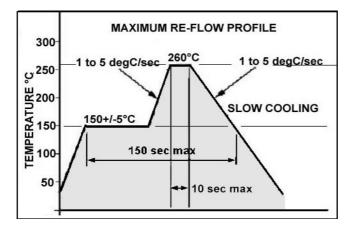


Reel Dimensions (Units in mm)

* 1,000 piece reels



Re-flow Conditions



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