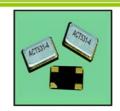


ACT531SMX-4

The ACT531SMX-4 is a 4 pad, high quality, low aging, seam welded packaged crystal. Utilising a ceramic base with a metal lid, it provides for the durability and reliability, necessary for strenuous processes like infrared and vapour reflow. The lid is grounded through the package and the pads are gold plated. The device is very suitable for automatic placement on PCB's. With an excellent range of frequencies and stabilities it has become one of the optimum choices for design engineers. Applications include Communications, Microprocessor Systems, Instrumentation and particularly Wireless Communications applications. Available loose or on 1,000pc reels.

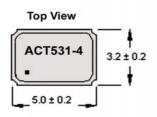
Tel: 0044 (0)118 979 1238 Fax: 0044 (0)118 979 1283 email: info@actcrystals.com

> Compatible with Eu Directive 2002/EC - RoHS



Specification

- Parameter	Symbol	Specification	Condition
Frequency Range	fo	12.00 ~ 48.00 MHz	Please specify
Frequency Range	fo	10.00 ~ 11.99 MHz For availability please enquire.	
Frequency Tolerance	∆f/fo	±10ppm ~ 50ppm (@25°C±3°C) refer to table 2	Please Specify
Stability over Temp Range	Tc	±10ppm ~ 50ppm refer to table 2	Please specify
Temp Operating Range	Topr	-20 ~ +70°C	Please specify
Temp Storage Range	Tstg	-40 ~ +85°C	
Equivalent Series Resistance	ESR	Please refer to Table 1	
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



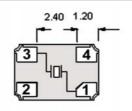
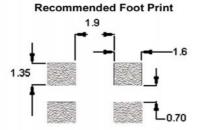


Table 1

ı	Frequency(MHz)	ESR Ω max	Mode
	10.0~19.999	100	Fundamental
	20.0~29.999	70	Fundamental
I	30.0~48.0	50	Fundamental
			-

Dimensions (mm)



Pad surface material Au

Table 2

		±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
Tolerance	25°C		$\overline{\mathbf{Q}}$			
	-20~+70°C					
Stability	-40~+85°C	Enquire	✓	☑	☑	✓

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

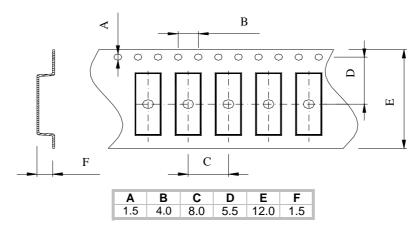
For quotations or further information please contact us at: 3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK http://www.actcrystals.com

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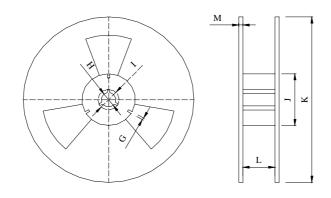
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ACT531SMX-4 Series Tape Dimensions (Units in mm)



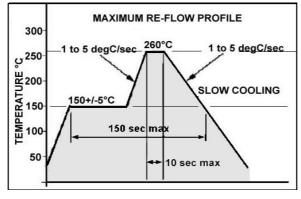
Reel Dimensions (Units in mm)

* 1,000 piece reels



G	Н	I	J	K	L	М
2.5	13.5	21.6	60.0	178.0	13.5	1.6

Reflow Information



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