

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

ACT845SMX-2

The ACT845SMX-2 is a 2 pad, cost competitive ceramic packaged, glass sealed crystal. The package provides for the durability and reliability, necessary for reflow processes. The pads are gold plated. With its wide range of frequencies allowing for ease of circuit design, and with a good range of stabilities, it has become one of the optimum choices for design engineers. (Available loose or reeled to suit low / high volume requirements).

Applications include Microprocessor Systems, Instrumentation, Communications, Notebook & PCMCIA and many more.

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	Condition		
Frequency Range	fo —	10.0 ~ 48.0 MHz Fundamental	Please specify		
riequency Kange		48.0 ~ 80.0 MHz Third Overtone			
Frequency Tolerance	∆f/fo	±20ppm ~ 100ppm (@25°C±3°C) Please refer to Table 2	Please Specify		
Stability over Temp Range	Tc	±20ppm ~ 100ppm (Ref to :25°C±3°C)Please refer to Table2	Please specify		
Temp Operating Range	Topr	-10 ~ +70°C			
Temp Storage Range	Tstg	-40 ~ +85°C			
Equivalent Series Resistance	ESR	See Table 1			
Load Capacitance	CL	10 ~ 30pF or Series Resonance	Please specify		
Shunt Capacitance	C0	7pF max			
Drive Level	DL	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		

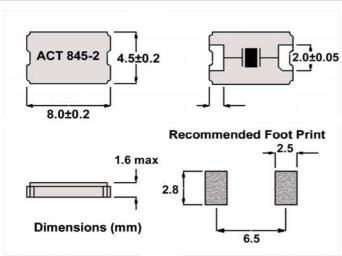


Table 1

Frequency MHz	ESR Ω max	Mode
10.0~11.999	80	Fundamental
12.0~47.999	50	Fundamental
48.0~84.0	70	3rd Overtone

Pad surface material Au

Table 2

		±20ppm	±30ppm	±50ppm	±100ppm		
Tolerance	25°C	Enquire					
Stability	-10~+70°C	Enquire	☑	☑	☑		
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

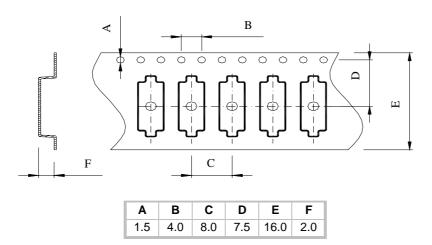
For quotations or further information please contact us at:
3 The Business Centre, Molly Millars Lane, Wokingham, Berkshire, RG41 2EY, UK
http://www.actcrystals.com

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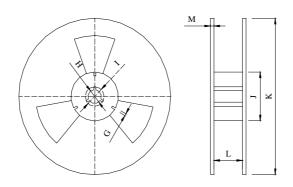


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ACT845SMX-2 TAPE DIMENSIONS (Units:mm) 1,000 piece reels standard

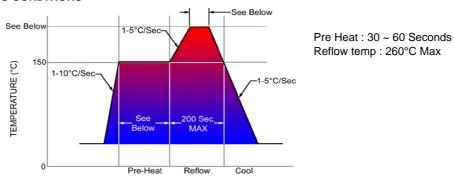


REEL DIMENSIONS (Units:mm)



G													
2.5	13.5	21.6	60.0	178.0	17.5	1.6	65.2	71.0	76.7	82.5	88.3	94.1	99.8

SOLDERING CONDITIONS



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