

ACT844SMX-2

The ACT844SMX-2 family is a low cost, 2 pad, high quality, low aging 8x4.5mm 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, Office automation, Micro Clock, Process Control & Consumer.

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	6.0 ~ 150.0MHz	Please specify
Frequency Tolerance (@25°C)	$\Delta f/fo$	$\pm 20, \pm 30$ & ± 50 ppm(Std)	Please specify
Stability over temp range	Tc	± 20 ppm ~ 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	100 μ W typical (500 μ W max)	(custom available - Please enquire)
Insulation Resistance	IR	500M Ω min	@100V DC
Aging	Fa	± 5 ppm p/year*	(First year max @ 25°C)

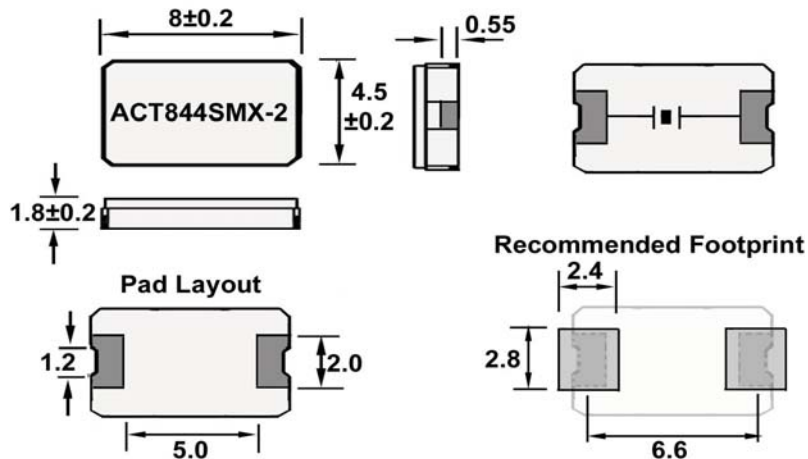
* A ± 3 ppm aging p/year part is available as a "semi-custom" device - Please enquire

Table 1

Freq. Range (MHz)	ESR (Ω) max	Mode / Cut
6.000 ~ 9.999	100	Fundamental / AT
10.000 ~ 11.999	80	Fundamental / AT
12.000 ~ 14.999	60	Fundamental / AT
15.000 ~ 49.100	50	Fundamental / AT
40.000 ~ 79.999	90	3 RD Overtone / AT
80.000 ~ 90.000	90	3 RD Overtone / AT
90.001 ~ 150.000	150	3 RD 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>

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ACT844SMX-2

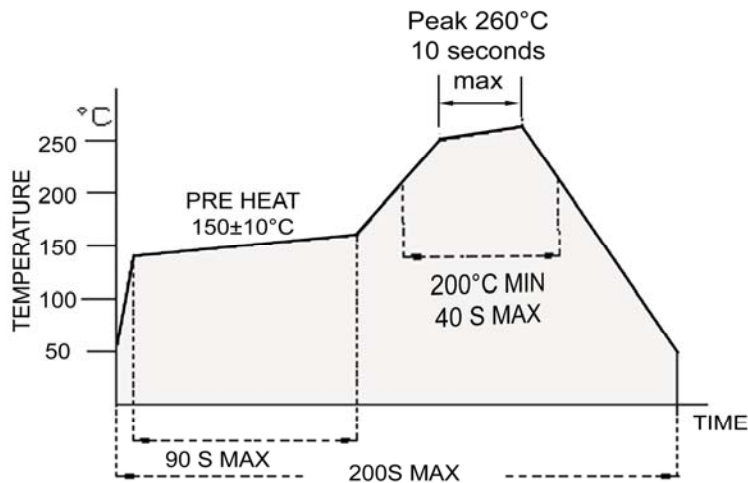
Table 2

Stability Temp	+/- 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



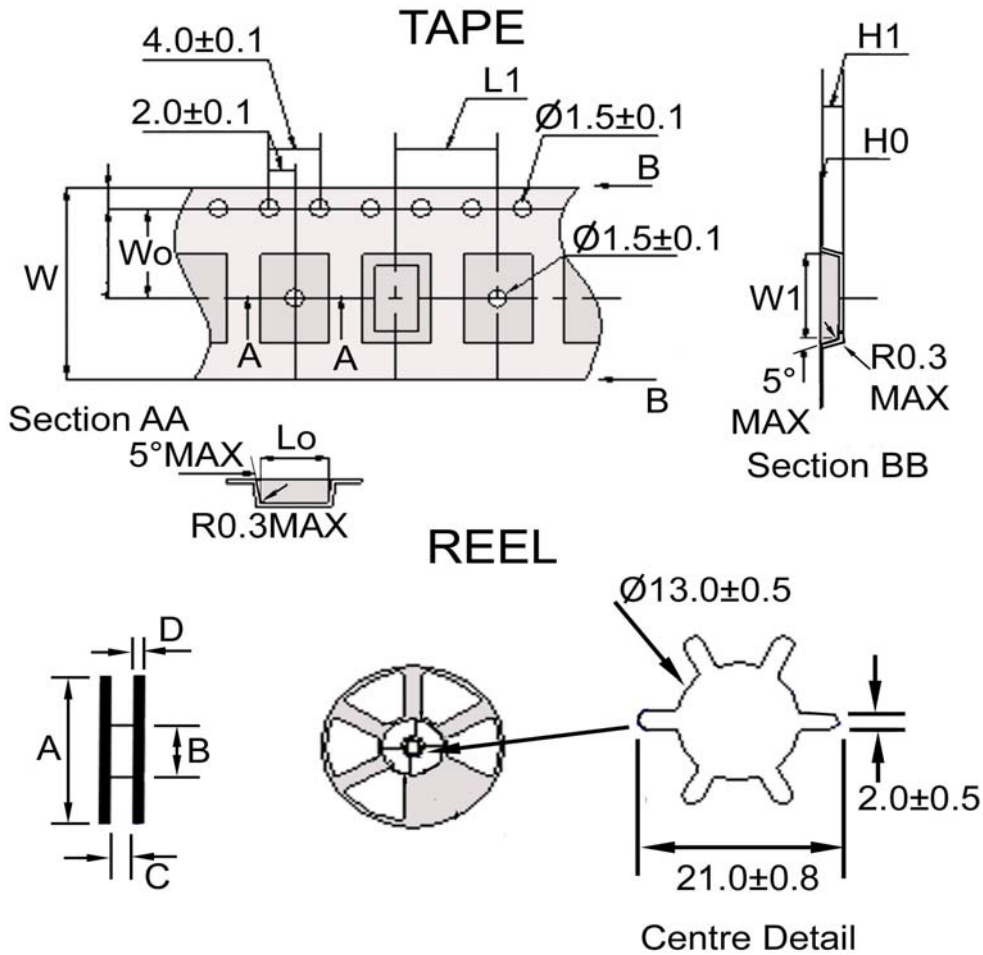
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TAPE & REEL SPECIFICATION
 (1K pcs each reel)



Tolerance Dimension	TAPE							REEL			
	W	Wo	W1	Lo	L1	Ho	H1	A	B	C	D
	±0.3	±0.15	±0.1	±0.1	±0.1	±0.05	±0.1	±2	±1	±1.0/-0.5	±0.2
	16.0	7.5	8.5	5.05	8.0	0.3	2.25	180	60	17.5	2.0

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