

ACT750SMX-2/4

The **ACT750SMX-2/4 family** is a low cost, 4 & 2 pad, high quality, low aging 7x5mm SMD Crystal in a ceramic base / metal lid package, seam sealed for good long term reliability. The 4 pad device has the lid grounded via the package to reduce EMI issues. The wide frequency range and specification options ensure suitability for many applications.

APPLICATIONS: Wireless/WLAN, ATM, Cordless phones, Pagers, PC & Notebook, Instrumentation, Audio visual, Micro clock, Process control, Consumer & Communications.

Compatible with Eu Directive
 2002/EC - RoHS



Specification

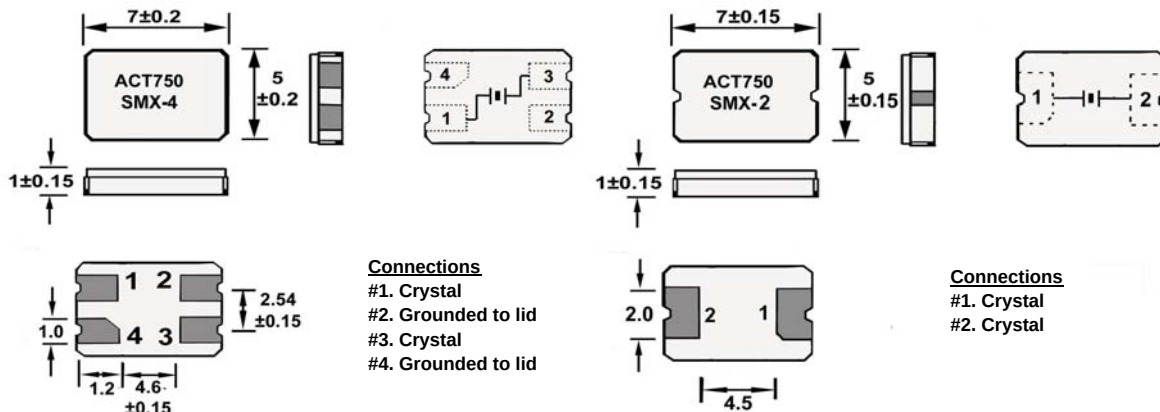
Parameter	Symbol	Specification	Condition
Frequency Range	f_0	6.0 ~ 150.0MHz	Please specify
Frequency Tolerance (@25°C)	$\Delta f/f_0$	$\pm 5, \pm 10, \pm 15, \pm 20, \pm 30$ & ± 50 ppm(Std)	Please specify
Stability over temp range	Tc	± 5 ppm ~ 50ppm (See table 2)	Please specify
Temp Operating Range	Topr	0~+50°C ~ -40~+85°C (See table 2)	Please specify
Temp Storage Range	Tstg	-40 ~ +85°C	
Equivalent Series Resistance	ESR	See table 1	
Load Capacitance	CL	10pF ~ 50pF & Series	(16,20 & 30pF Std. Please specify)
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	± 3 ppm p/yea*	(First year max @ 25°C)

Table 1

Freq. Range (MHz)	ESR (Ω) max	Mode / Cut
6.000 ~ 9.999	100	Fundamental / AT
10.000 ~ 11.999	60	Fundamental / AT
12.000 ~ 14.999	50	Fundamental / AT
15.000 ~ 49.090	40	Fundamental / AT
45.000 ~ 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>

Issue 2 C1F
 Date 05/04/06

ACT750SMX-2/4

Table 2

Stability Temp	+/- 5ppm	+/- 10ppm	+/- 20ppm	+/- 30ppm	+/- 50ppm
0~+50°C	+	+	+	+	+
-10~+60°C	+	+	+	+	+
-20~+70°C		+	+	+	+
-30~+80°C		+	+	+	+
-40~+85°C		+	+	+	+

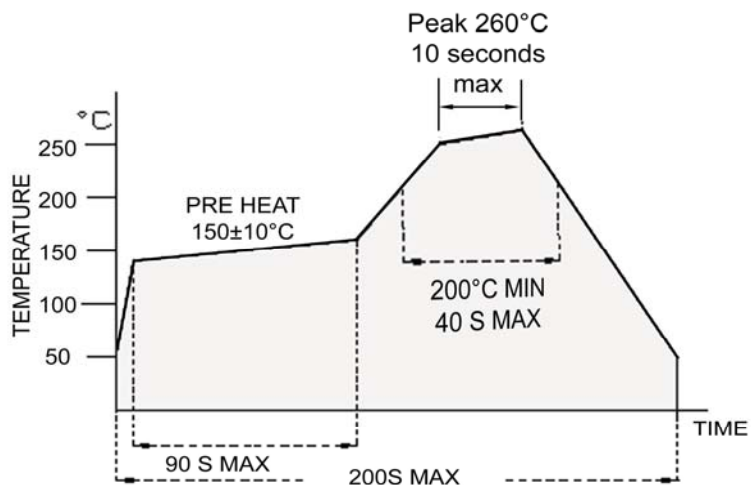


Available stabilities



Standard stabilities

Standard Re-flow Profile



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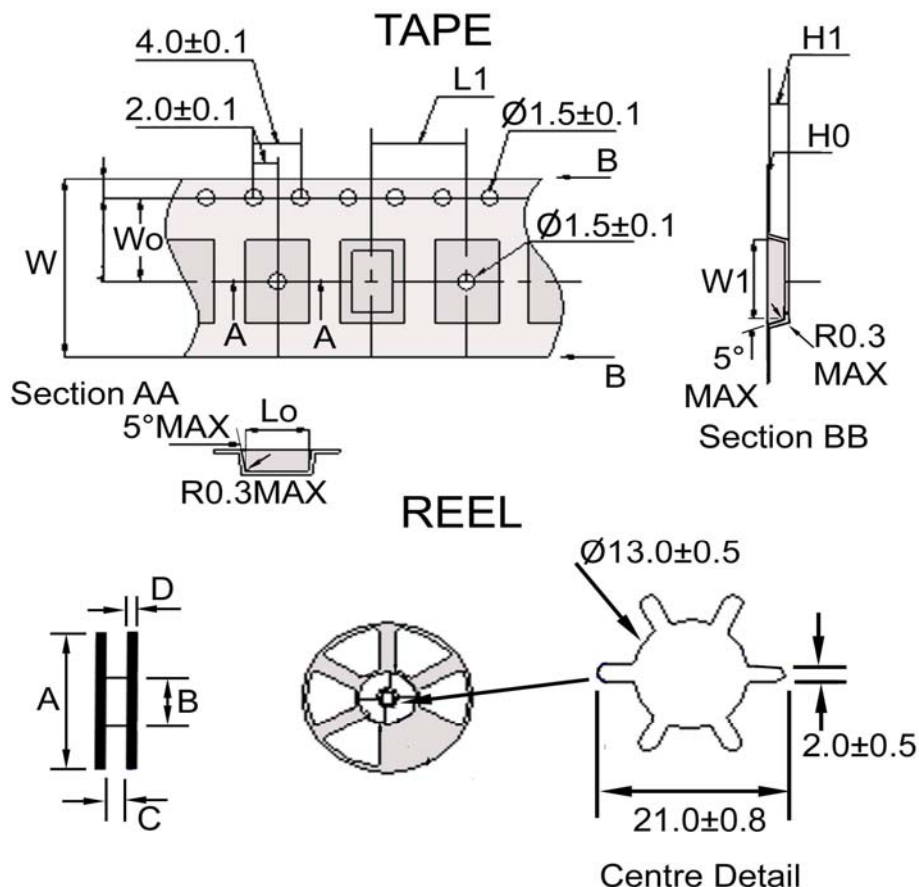
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TAPE & REEL SPECIFICATION

(1K pcs each reel)



Tolerance Dimension	TAPE							REEL			
	W	W ₀	W ₁	L ₀	L ₁	H ₀	H ₁	A	B	C	D
	±0.3	±0.1	±0.1	±0.1	±0.1	±0.05	±0.1	±1	±1	±1.5	±0.2
	16.0	7.5	7.4	5.4	8.0	0.3	1.4	178	80	17.5	2.0

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